

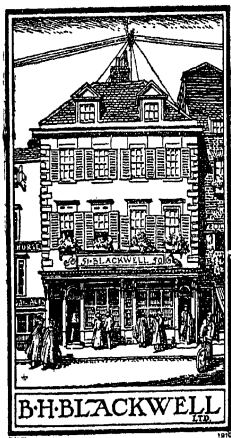
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Approximately £250,000 has been spent in rebuilding the Medical School and Laboratories. The New Buildings are now in use. Apart from the Laboratories, Class-rooms, and Theatres for all the subjects in the Curriculum, they include a Library, Restaurant, Students' Club, Billiard room, full-sized Swimming Bath, Squash Rackets Court, Gymnasium, Boxing ring, and an underground Garage for fifty cars.

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The formation of Clinical Units in Medicine and Surgery has been an important advance in connection with the clinical teaching, and this has been further developed by the affiliation for teaching purposes of several of the Hospitals in the neighbourhood, bringing up the total number of beds available for teaching up to 1000. By agreement with Queen Charlotte's Lying-in Hospital, all students of St. Mary's attend a short course of instruction there, without extra fee before entering upon their duties in the Maternity District of St. Mary's.

## Research Studentships.

A considerable sum is devoted annually to research, and a part of this is applied to the upkeep of Research Scholarships, designed to enable students recently qualified to learn the technique of research work.

## Entrance Scholarships.

All Entrance Scholarships are awarded annually in June by nomination. The Geraldine Harmsworth Scholarship (£200) and other University Scholarships are open to members of Oxford and Cambridge Universities who have completed their examination in Anatomy and Physiology.

## Appointments after Qualification.

Numerous appointments are open to newly qualified members of the Medical School. Six House Physicians (eight months), ten House Surgeons (six to eight months), and four Resident Obstetric Officers (six months) are appointed annually. Two Resident Anaesthetists (six months), £150 per annum, four Casualty House Surgeons (six months), £100 per annum, with board and residence. Two Medical Registrars, and Surgical Registrar, £200 per annum, with partial board. Obstetric Registrar and Radium Registrar, each £50 per annum, with partial board.

## Limitation of Numbers.

The School has decided that in future only Students who have matriculated, or obtained exemption from matriculation at one of the Universities, will be admitted.

## Athletic Ground.

The Old Merchant Taylors' Ground at Teddington (13 acres) which is one of the few London grounds on gravel and is therefore dry in Winter, has recently been purchased and is now in use.

## Fees.

The Composition Fee for the entire Curriculum is £205.

The Composition Fee for the Clinical portion of the Curriculum is 95 guineas.

The Fee for the Amalgamated Club is 3 guineas per annum.

The Illustrated Prospectus can be obtained from the School Secretary, St. Mary's Hospital, Paddington, W.2.

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## POST-GRADUATE COURSES, AND COURSES FOR EXTERN STUDENTS.

### *A.—Courses leading to Degrees.*

The regulations under which graduates of the University and graduates of other Universities may qualify for the degrees of M.Sc. and Ph.D. are given in the pamphlet entitled "Terms and Exercises required for the several Degrees," which will be sent on application to the Assistant Registrar, Trinity College, Dublin.

Candidates for Degrees in Music are not required to be University Graduates. The regulations will be sent by the Assistant Registrar, Trinity College, Dublin.

### *B.—Courses leading to Diplomas.*

Students who are not graduates of the University may be admitted to qualify for the Diplomas in Public Health, in Gynaecology and Obstetrics, and in Psychological Medicine. The regulations may be obtained from the Registrar of the School of Physic, Trinity College, Dublin.

Such students may also be admitted to the Diploma in Economics and Commercial Knowledge, and to the Diplomas in Geography, in the History of European Painting, in Education, and in Social Studies. The regulations for the former will be sent by the Registrar of the School of Commerce, Trinity College, Dublin: for the latter by the Assistant Registrar, Trinity College, Dublin.

### *C.—Other Courses.*

1. Students who are not graduates of the University may, if sufficiently qualified, be permitted to attend the Courses provided in the different branches of Arts. Application is to be made to the Senior Lecturer, Trinity College, Dublin.

If leave is granted, they will be required to pay to the Bursar a fee of three guineas per Term for each Course taken.

2. The special class held to prepare candidates for the Examination for the Indian, Colonial, and Home Civil (Class I) Services is open to extern students.

Particulars may be obtained from the Registrar, Trinity College, Dublin.

3. A limited number of extern students may be admitted to pursue research work in the laboratories of the Departments of Experimental Physics, Chemistry, Botany, Geology, and Zoology. Application should be made to the Professor concerned, whose leave must be obtained in all cases.

4. Graduates in Medicine of this and other Universities are admitted to pursue research work in the Departments of Anatomy and Embryology, Physiology, Pathology, and Bacteriology. No fee is charged, beyond what is required to cover cost of materials. Application should be made in the first instance to the Dean of the Faculty of Physic, Trinity College, Dublin.

5. An intensive course in all branches of Medicine, lasting three weeks, is given during the Long Vacation, to which all qualified medical practitioners are admitted, if approved by the Professors of the School. Particulars may be obtained from the Registrar of the School of Physic, Trinity College, Dublin.

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The Prospectuses of Part-time Courses give particulars of evening courses in Engineering, Mathematics, and Physics, leading to the external degrees of London University in Engineering and Science.

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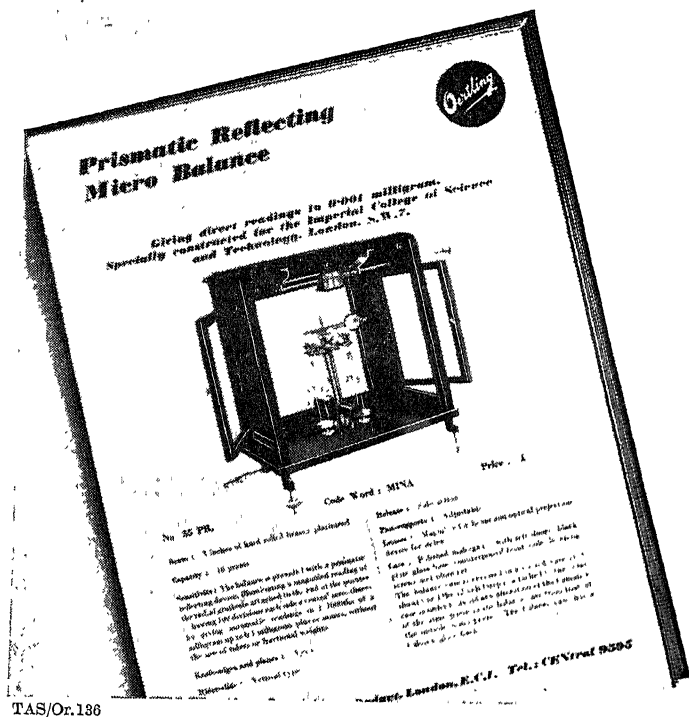
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## PREFACE

THE *Yearbook* was first published in 1914. Before its advent the official University Calendars were the only authentic sources of information regarding the personnel, organization, regulations, and recent activities of universities. When British universities were few and university men took but little interest in affairs of any except their own, the Calendars sufficed; but there are now 70 and each takes a growing interest in the others. In the *Yearbook* such information has been collected as may be of interest to members of other universities and colleges, to Government Departments, clubs, school-masters and the public generally.

The introductory chapters deal with the Universities of Great Britain and Ireland, of Canada, of Australia, of South Africa and of India, their history, regulations and practice. Each section comprises three parts:

(1) A directory of the officers and members of the staff of the University. The directory gives the degrees held by the teachers as well as the University by which they were granted, except in those cases in which the honorary degrees conferred are too numerous to specify. If no name of a university follows a degree, it may be assumed that the degree was conferred by the university upon whose staff the teacher is serving. With the exception of honours conferred by H.M. the King and by the French Republic, titles other than degrees are omitted, unless they throw light upon the standing of their holders in the subjects which they profess.

(2) General Information.

(3) Reports of events of outstanding interest which occurred during the previous academic year.

The thirty-one Appendices have been re-arranged this year in what is thought to be a more logical sequence and re-numbered. Matters dealt with in them include: admission to Universities, open post-graduate scholarships, centres of scientific and industrial research, bureaux of information, professional bodies (formerly Appendices I-XXI—now grouped under arabic numbers as Appendix IV) and other subjects of general interest.

The General Index includes a series of references enabling informa-

tion to be found relating to professional schools, specialist studies, and so forth.

For the first time the Annual Report of the Executive Council of the Universities Bureau is reproduced in the *Yearbook*.

The Executive Council of the Universities Bureau desire to acknowledge the assistance given by Universities as well as other Institutions and Government Departments in the annual revision of the *Yearbook*, but cannot accept responsibility for omissions or inaccuracies in the information supplied.

On the occasion of the retirement of Miss E. S. Durrad as Assistant Secretary of the Universities Bureau and Assistant Editor of the *Universities Yearbook*, the Executive Council placed on record their high appreciation of the loyal services which she had rendered in the course of her nine years' connexion with the Bureau, as well as of her industry and her zeal which have contributed in no small measure to making the *Yearbook* an accurate and indispensable compilation of all important information relating to Universities and other institutions in the British Empire.

Universities Bureau of the British Empire,  
88A Gower Street, London, W.C.1.  
*March 1938.*

## ADDENDA ET DELEND A

- p. 44. *Botany*. *Delete* Turner, J. S., Demr.
- p. 48. *Music*. *Delete* Rootham, C. B., Lectr.
- p. 52. Marshall Lecturer *Add* 1938-39—Monsieur Paul van Zeeland (Brussels).
- p. 56. Jesus College. *Add* Research Fellows, Percival, A. L., B.A. (Mech. Sci.); Wilson, C. H., B.A. (Econ. Hist.)
- p. 57. King's College Fellows. *Add* Pringle, J. W. S., M.A.; Stead, G. C., B.A., Harrison, K. P., M.A.
- p. 59. St. John's College. Fellows *Delete* Rootham, C. B., M.A., Mus.D.
- p. 61. Trinity College Fellows. *Add* Bragg, W. L., O.B.E., M.C., M.A., F.R.S., N.L., *Cavendish Prof* (*Exper. P.*)
- p. 84. Secretary to the Council. *Delete* W. S. Angus.
- p. 94. *Botany*. Pearsall, W. H., Reader. *Add* to 30.9.38.
- p. 95. *Classics*. *Add* Wood, E. J., M.A. Aberd. and Camb. (Latin). Prof.
- p. 116. *Add Physical Training*. Dunn, R. E., B.Sc. (Theory and Practice). Lecturer-Instructor.
- p. 147. *Chemistry*. *Add* Bennett, G. M., M.A., Sc.D. Camb., Prof. from 1.10.38.
- p. 147. *Chemistry*. Cremer, H. W. *Add* Director of Studies in Chem. Eng.
- p. 165. *Chemistry*. *Add* Heilbron, I. M., D.S.O., M.Sc. Manc., D.Sc. Glas., Ph.D. Leipz., F.R.S., F.I.C. (Org. C.). Prof. from 1.10.38.
- p. 172. *Engineering, Electrical*. John, W. J., Reader. Prof. from 1.10.38.
- p. 209. *Surgery*. *Add* Pilcher, R. S., M.B., M.S., M.R.C.P., F.R.C.S. (UM.) from 1.10.38.
- p. 225. *Chemistry*. Gillam, A. E. M. G., Special Lectr. in Chem. Spectroscopy. Lectr. in Chem. from 29.9.38.
- p. 225. *Chemistry*. Heilbron, I. M., Sir Samuel Hall Prof. *Add* to 30.9.38.
- p. 225. *Classics*. Husband, Jeanie, Lectr. Senior Lectr. from 29.9.38.
- p. 226. *Classics*. Cook, R. M., Asst. Lectr. Lectr. in Greek and Latin, from 29.9.38.
- p. 226. *Electro-Technics*. *Add* Jackson, D. Phil. Ox., D.Sc., Edward Stocks Massey Prof. and Dir., Electro-Tech. Labs. from 29.9.38.
- p. 227. *Geography*. Davies, Elwyn, Asst. Lectr. Lectr. from 29.9.38.
- p. 228. *History*. Wilkinson, B., Lectr. *Add* to 29.9.38.

- p. 228. *Mathematics*. Swirles, Bertha, Lectr. *Add to 29.9.38.*
- p. 229. *Philosophy*. Teale, A. E., Asst. Lectr. Lectr from 29.9.38.
- p. 229. *Physics*. Brentano, J. C. M., Lectr. Senior Lectr from 29.9.38.
- p. 229. *Statistics*. Campion, H., Robert Ottley Lectr. Robert Ottley Reader, from 29.9.38.
- p. 231. *Pathology*. Davson, J., Demr. Asst Lectr. from 29.9.38.
- p. 231. *Pharmacology*. Rowson, J. M., Demr. Asst. Lectr. in Pharmacy, from 29.9.38.
- p. 234. *Chemistry, Applied*. *Add* Mounfield, J. D., M.Sc. Tech., Ph.D., A.I.C. Asst. Lectr.
- p. 243. *Botany*. *Add* Baker, H., M.A., Lectr. and Demr.
- p. 245. *French*. Bisson, L. A., Lectr in French Lit. Reader from 1.10.38.
- p. 248. *Zoology and Comp. Anat.* de Beer, G. R., Lectr. and Demr., *now* Reader and Demr.
- p. 251. Bampton Lecturer. *Add* 1940, Rev. G. L. Prestige, D.D. New Coll.
- p. 251. Herbert Spencer Lecturer. *Add* Subject—Natural Law in the Political World.
- p. 251. Sir Basil Zaharoff Lecturer. For subject *read*—Retour d'un Anglicisant à la poésie française.
- p. 252. All Souls College. *Add* Brook, Rev. V. J. K., M.A., Chaplain-Fellow.
- p. 258. New College Fellows. *Add* Girdlestone, G. R., M.A., B.M., F.R.C.S. *Nuffield Prof. of Orthopædic Surgery*, Supernumerary Fellow.
- p. 260. Queen's College. Laming Travelling Fellows. *Add* Curle, J. N. O., B.A. New Coll., Merson, A. L.
- p. 262. University College. Radcliffe Travelling Fellows *Add* Henley, W. E., B.A., B.M.
- p. 266. Society of Oxford Home Students. Tutors. *Add* Reeves, M. E., Ph.D. Lond., B.A. (Mod. Hist.).
- p. 285. *Machinery*. *Delete* Passmore, J. B., Lectr.
- p. 286. Residence. Wantage Hall—Warden. *Delete* J. B. Passmore.
- p. 288. *Botany*. *Add* Pearsall, W. H., D.Sc. Manc., F.L.S. Prof from 1.10.38.
- p. 304. *Classics*. Wood, Prof. E. J. Appointed to Professorship of Latin, Leeds Univ.
- p. 347. *Anatomy*. Low, Alex., Reg. Prof. *Add to 30.9.38.*
- p. 350. *Bacteriology*. *Add* Howie, J. W., M.B., Ch.B. Lectr.
- p. 388. *Geography*. Cumming, G. A., Asst., *now* Lectr.
- p. 388. *Geology*. Cumming, G. A., Asst.†, *now* Lectr.†
- p. 390. *Bacteriology*. *Add* Stiven, D., Asst. Dir. Bact. Lab., Lectr. (shown as Lectr. in Physiol.)
- p. 391. *Dental Surgery*. *Add* Campbell, H. G., Prof. (shown as Lectr. in D. Anat. and Physiol. and Oral Hygiene).
- p. 395. Librarian. *Add* G. Woledge, B.A. Leeds.
- p. 396. *Classics*. Henry, R. M., Prof. *Add to 30.9.38.*

- p. 396. *Engineering, Civil.* Hummel, F. H., Prof. *Add to 30.9.38.*
- p. 414. *History, Modern Irish.* Hayden, Mary T., Prof. *Add to 30.5.38.*
- p. 533. *History.* *Add* Wilkinson, B., M.A., Ph.D. Manc. Prof. from 1.10.38.
- p. 568. *Waite Agric. Research Inst.* Davidson, J., *now* Waite Prof. of Entomol.
- p. 573. *Botany.* *Add* Turner, J. S., M.A., Ph.D. Camb. Prof.
- p. 575. *History.* *Add* Fitzpatrick, Mrs. K. E., M.A. Ox., B.A., Lectr.
- p. 583. *Add Materia Medica and Therapeutics.* Booth, F. J., B.Sc., M.B., Ch.M., B.A.O. Belf., Pt.-time Lectr. (also Physiol.).
- p. 774. *English.* *Add* Burrows, A. I., M.A. Birm., Lectr.
- p. 857. *Add ELMORE MEDICAL RESEARCH STUDENTSHIPS.* Open to male graduates of any Univ. born at any place within the British Empire other than Scotland for research in medicine at or from Cambridge Univ. Normally tenable for 2 yrs. but may be renewed. Annual value determined by the Board of Managers in each case—(1938, £300). Further particulars from the Regius Professor of Physic, Dept. of Medicine, Univ. of Cambridge.
- p. 926. *MEDICAL.* *Add NATIONAL MEDICAL RESEARCH COMMITTEE* formed early in 1938. Chairman, Prof. Sir Frederick G. Banting, K.B.E., M.C., M.D., LL.D., D.Sc., Sc.D., F.R.C.S., F.R.S. Eng. and Can.





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1. His Majesty's Forces. 2. Accountants, Actuaries, etc. 3. Agri- culture, Dairying, Horticulture, etc. 4. Architecture. 5. Auc- tioneers and Estate Agents. 6. Bankers. 7. Chemistry. 8. Engin- eers—Civil, Electrical, Mechanical, etc. 9. Industrial Administra- tion. 10. Law—Barristers, Solicitors, etc. 11. Medicine and Surgery, etc. Medical and Dental Qualifications and Registration of Students; Reciprocal Recognition; Post-graduate Medical Studies. Royal Colleges, Societies, etc. 12. Mining and Metallurgy (including Mining Engineering, Petroleum, etc.). 13. Ministry of the Churches. 14. Patent Agents. 15. Pharmaceutical Chemistry. 16. Physics. 17. Public Administration. 18. Secretaries. 19. Sur- veyors. 20. Textile Institute. 21. Teachers—Training, Inter- change, Registration, etc. 22. Government Services, Home and Overseas. . . . .	954
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# QUALIFICATIONS OTHER THAN UNIVERSITY DEGREES REFERRED TO IN THE YEARBOOK BY LETTERS AFTER NAMES

*For initial letters of titles of degrees vide p. 5 ff.*

[See also lists of medical qualifications in Appendix IV. 11. In the appendices relating to the various professional associations some account is given of the examinations, etc., whereby their qualifications are obtained. N.B.—The letters used in the *Yearbook* are not in all cases those authorized by the Associations; e.g., M.Inst.C.E. is sometimes abbreviated to M.I.C.E., M.I.Mech.E. to M.I.M.E., F.Inst.P. to F.I.P.]

A.C.A.	.	.	.	Associate of Institute of Chartered Accountants.
A.C.G.I.	.	.	.	City and Guilds of London Institute.
A.C.I.S.	.	.	.	Chartered Institute of Secretaries.
A.F.C.	.	.	.	Air Force Cross.
A.F.R. Ae.S.	.	.	.	Associate Fellow of Royal Aeronautical Society.
A.I.C.	.	.	.	of Institute of Chemistry.
A.I.M.M.	.	.	.	Institution of Mining and Metallurgy.
A.I.P.	.	.	.	Institute of Physics
A.K.C.	.	.	.	King's College.
A.L.S.	.	.	.	Linnaean Society.
A.M.C.	.	.	.	Art Master's Certificate.
A.R.A.M.	.	.	.	Associate of Royal Academy of Music.
A.R.C.A.	.	.	.	" " College of Art.
A.R.C.M.	.	.	.	" " " Music.
A.R.C.O.	.	.	.	" " " Organists.
A.R.C.S.	.	.	.	" " " Science.
A.R.C.S.I.	.	.	.	" " " Science, Ireland.
A.R.E.	.	.	.	Society of Painter Etchers.
A.R.I.B.A.	.	.	.	Institute of British Architects.
A.R.S.M.	.	.	.	School of Mines.
A.R.T.C.	.	.	.	Technical College, Glasgow.
A.R.W.S.	.	.	.	Society of Painters in Water-Colours
A.S.A.A.	.	.	.	Society of Incorporated Accountants and Auditors.
A.T.I.	.	.	.	Textile Institute.
C.A.	.	.	.	Chartered Accountant.
C.A.Aust.	.	.	.	Chartered Accountant of Australia.
C.B.E.	.	.	.	Commander Order of British Empire.
C.D.A.	.	.	.	College Diploma in Agriculture.
C.D.H.	.	.	.	" " Horticulture.
C.G.	.	.	.	Croix de Guerre.
C.G.I.	.	.	.	City and Guilds Institute.
C.H.	.	.	.	Companion of Honour.
Chev. Lég. d'H.	.	.	.	Chevalier de la Légion d'Honneur.
C.I.E.	.	.	.	Companion of the Order of the Indian Empire.
C.S.I.	.	.	.	Star of India.
D.F.C.	.	.	.	Distinguished Flying Cross.
Dip. d'E.S.	.	.	.	Diplôme d'Etudes Supérieures.
Dip.T.C.	.	.	.	Diploma of the Technical College, Zürich.
D.I.C.	.	.	.	Diploma of Imperial College of Science and Technology.
D.M.R.E.	.	.	.	" in Medical Radiology and Electrology.
D.O.M.S.	.	.	.	" in Ophthalmic Medicine and Surgery.
D.P.H.	.	.	.	" in Public Health.
D.P.M.	.	.	.	" in Psychological Medicine.
D.S.C.	.	.	.	Distinguished Service Cross (Naval).
D.S.O.	.	.	.	" " Order.
D.T.M.	.	.	.	Diploma in Tropical Medicine.
D.V.S.M.	.	.	.	" in Veterinary State Medicine.

# QUALIFICATIONS REFERRED TO BY LETTERS ix

F.A.C.S.	.	.	.	Fellow of the American College of Surgeons.
F.A.I.	.	.	.	" Auctioneers' Institute.
F.B.A.	.	.	.	" British Academy.
F.C.A.	.	.	.	" Institute of Chartered Accountants.
F.C.I.S.	.	.	.	" the Chartered Institute of Secretaries.
F.C.O.G.	.	.	.	" College of Obstetricians and Gynaecologists.
F.G.S.	.	.	.	" Geological Society.
F.I.A.	.	.	.	" Institute of Actuaries.
F.I.C.	.	.	.	" Chemistry.
F.I.C.A.	.	.	.	" Chemistry, Australia.
F.I.F.	.	.	.	" Fuel.
Phil.Lic. (Uppsala)	.	.	.	" Licentiate in Philosophy.
F.I.P.	.	.	.	" Fellow of the Institute of Physics.
F.I.S.E.	.	.	.	" Institution of Structural Engineers.
F.L.A.	.	.	.	" Library Association.
F.L.S.	.	.	.	" Linnaean Society.
F.R.A.C.S.	.	.	.	" Royal Australian College of Surgeons.
F.R.A.I.	.	.	.	" Royal Anthropological Institute.
F.R.A.M.	.	.	.	" Academy of Music.
F.R.A.S.	.	.	.	" Astronomical Society.
F.R.Ae.S.	.	.	.	" Aeronautical Society.
F.R.C.M.	.	.	.	" College of Music.
F.R.C.O.	.	.	.	" Organists.
F.R.C.P.	.	.	.	" Physicians, London.
F.R.C.P. Can.	.	.	.	" Canada.
F.R.C.P.Ed.	.	.	.	" Edinburgh.
F.R.C.P.I.	.	.	.	" Ireland.
F.R.C.S.	.	.	.	" Surgeons of England.
F.R.C.S.Can.	.	.	.	" Canada.
F.R.C.S.Ed.	.	.	.	" Edinburgh.
F.R.C.S.I.	.	.	.	" Ireland.
F.R.C.V.S.	.	.	.	" Veterinary Surgeons.
F.R.F.P.S. Glas.	.	.	.	" Faculty of Physicians and Surgeons of Glasgow.
F.R.I.B.A.	.	.	.	" Institute of British Architects.
F.R.S.	.	.	.	" Society.
F.R.S.C.	.	.	.	" Society of Canada.
F.S.A.	.	.	.	" Society of Antiquaries.
F.S.A.A.	.	.	.	" Society of Incorporated Accountants and Auditors.
F.S.I.	.	.	.	" Surveyors' Institute.
F.S.S.	.	.	.	" Royal Statistical Society.
F.T.I.	.	.	.	" Textile Institute.
Hon.R.C.M.	.	.	.	" Honorary Member of the Royal College of Music.
K.H.C.	.	.	.	" Hon. Chaplain to the King.
K.H.P.	.	.	.	" Hon. Physician to the King.
K.H.S.	.	.	.	" Hon. Surgeon to the King.
L.C.P.	.	.	.	" Licentiate of the College of Preceptors.
L.D.S.	.	.	.	" in Dental Surgery.
L.L.A.	.	.	.	" Lady Literate in Arts (St. Andrews).
L.M.S.S.A.	.	.	.	" Licentiate in Medicine and Surgery, Society of Apothecaries, London.
L.R.A.M.	.	.	.	" Royal Academy of Music.
L.R.C.P.	.	.	.	" of the Royal College of Physicians, London.
L.R.C.P.I.	.	.	.	" Ireland.
L.R.C.P. and S. Ed.	.	.	.	" Colleges of Physicians and Surgeons of Edinburgh.
L.R.C.S.I.	.	.	.	" College of Surgeons, Ireland.
L.R.F.P.S. Glas.	.	.	.	" Faculties of Physicians and Surgeons of Glasgow.
L.R.I.B.A.	.	.	.	" Institute of British Architects.
L.S.A.	.	.	.	" of the Society of Apothecaries.
M.Amer.I.E.E.	.	.	.	" Member of the American Institute of Electrical Engineers.
M.Amer.I.M.E.	.	.	.	" Institute of Mining Engineers.
M.Amer.S.C.E.	.	.	.	" Society of Civil Engineers.
M.C.	.	.	.	" Military Cross.
M.C.O.G.	.	.	.	" Member of College of Obstetricians and Gynaecologists.
M.E.I.C.	.	.	.	" Member of the Engineering Institute of Canada.
M.I.Ae.E.	.	.	.	" Institution of Aeronautical Engineers.
M.I.A.E.	.	.	.	" Automobile Engineers.
M.I.Chem.E.	.	.	.	" Chemical Engineers.
M.Inst.C.E.	.	.	.	" Civil Engineers.
M Inst.E.E.	.	.	.	" Electrical Engineers.

# x      QUALIFICATIONS REFERRED TO BY LETTERS

M.I.Mech.E.	Member of the Institution of Mechanical Engineers.
M.Inst.M. and Cy.E.	" " Municipal and County Engineers.
M.I.Min.E.	" " Mining Engineers.
M.Inst.M.M.	" " and Metallurgy.
M.I.N.A.	" " Naval Architects.
M.I.P.T.	" " Petroleum Technologists.
M.I.Struct.E.	" " the Institute of Structural Engineers.
M.Inst.T.	" " Transport.
M.M.	" " Military Medal.
M.M.S.A.	" " Diploma of Mastery of Midwifery of Society of Apothecaries.
M.N.Z.S.C.E.	" " Member of the New Zealand Society of Civil Engineers.
M.P.S.	" " the Pharmaceutical Society.
M.R.C.P.	" " the Royal College of Physicians, London.
M.R.C.P.Ed.	" " " " Edinburgh.
M.R.C.P.I.	" " " " Ireland.
M.R.C.S.	" " " " Surgeons of England.
M.R.C.S.I.	" " " " Ireland.
M.R.C.V.S.	" " " " Veterinary Surgeons.
M.R.I.A.	" " " " Institute of Anthropology.
M.R.S.I.	" " " " Sanitary Institute.
M.S.A.	" " " " the Society of Architects.
M.T.P.I.	" " " " the Town Planning Institute.
N.D.A.	" " " " National Diploma in Agriculture.
N.D.D.	" " " " Dairying.
N.D.H.	" " " " Horticulture.
N.D.P.	" " " " Poultry Husbandry.
N.F.U.	" " " " Froebel Union.
N.L.	" " " " Nobel Laureate.
O.A.	" " " " Officier de l'Académie.
O.B.E.	" " " " Officer Order of British Empire.
O.I.P.	" " " " Officier de l'instruction publique.
O.Lég. d'H.	" " " " de la Légion d'Honneur.
O.M.	" " " " Order of Merit.
O.M.I.	" " " " Oblate Father of Mary Immaculate.
P.A.S.I.	" " " " Professional Associate of the Surveyors' Institution.
Ph.C.	" " " " Registered Pharmaceutical Chemist.
S.S.C.	" " " " Solicitor of the Supreme Court.
T.D.	" " " " Territorial Decoration.
T.D.A.	" " " " Diploma of Agriculture, Transvaal.
V.D.	" " " " Volunteer Officers' Decoration.
Wh.Sch.	" " " " Whitworth Scholar.
W.S.	" " " " Writer to the Signet.

# THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE

88A Gower Street, London, W.C.1 (entrance in Torrington Place).

*Telegrams and Cables* : "Uniburb, London."

*Telephone* : Euston 5164.

At the final meeting of the Congress of 1912 the delegates resolved that steps be taken for the formation in London of a Bureau of Information for the Universities of the Empire. In the spring of 1919 the Government offered a non-recurrent grant of £5000 to enable the Committee to secure and furnish premises suitable for the wide activities which the Bureau had developed, on condition that the Universities of the Empire undertook to provide funds adequate to its maintenance, and the Bureau was incorporated under licence of the Board of Trade. The Committee thereupon purchased the lease of No. 50 Russell Square. In 1930 the lease of these premises was sold and new offices were built at 88A Gower Street (in Torrington Place), W.C.1, on a site the lease of which was taken from the University of London. At the Fourth Quinquennial Congress of Universities of the Empire, held in Edinburgh in July 1931—the Second having been held at Oxford in 1921 and the Third, at Cambridge in 1926—new Articles of Association for the re-organization of the Bureau were considered by the delegates of the 69 Universities represented, and, subject to certain amendments, approved. The Articles were submitted in September 1931 to the Board of Trade which accorded its approval, subject to the deletion from Article 3 of the following proviso : " Provided that the powers of the Association shall not be exercised in any such way as to purport to restrict the powers and duties exercised by the constituent members under the several charters, statutes, regulations and other instruments of their self-government."

The Articles were approved at an Extraordinary General Meeting of the Association held on September 24, 1932. At the same Meeting the Association expressed its adherence to the principles of policy stated in this proviso.

At an Extraordinary General Meeting of the Association held at Cambridge on July 14, 1936, minor amendments of Schedule A were approved. The Memorandum and Articles of Association immediately follow.



# MEMORANDUM AND ARTICLES OF ASSOCIATION OF THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE

*(The word " Limited " being omitted by Licence of the Board of Trade)*

## MEMORANDUM OF ASSOCIATION

1. The name of the Association is " THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE."
2. The registered office of the Association will be situate in England.
3. The objects for which the Association is established are :—
  - (1) To take over and accept by way of gift or otherwise such of the assets and property of the unincorporated Universities Bureau of the British Empire, established in 1912, as the Association may lawfully acquire and to carry on and continue the undertaking and activities of the said Bureau.
  - (2) To collect and distribute information from time to time on matters of interest to the Universities of the British Empire.
  - (3) To arrange conferences and congresses and otherwise to facilitate communication and the interchange of information between the said Universities and between them and the Governments and other public bodies and learned institutions and societies of the British Empire and the Governments, Universities and other bodies of foreign countries.
  - (4) To facilitate the interchange of students and teachers between the said Universities and between them and the Universities of foreign countries.
  - (5) To establish and maintain a central office in London which shall serve, amongst other things, as a secretariat for the standing Committee of Vice-Chancellors and Principals of Universities in the United Kingdom and for any other Committees which the Universities may from time to time appoint.
  - (6) To establish and maintain offices in any other parts of the United Kingdom or in any state, colony, or dependency of the British Empire or in any foreign country or state, to form centres and secretariats for the work and activities of the Association.
  - (7) To print, publish and circulate handbooks, periodicals, circulars, leaflets and other publications with a view to making known and to furnishing and disseminating information about and encouraging interest in the objects, work and activities of the Association in any part of the world, and generally in connection with the carrying out of its objects.

- (8) To invite and collect subscriptions and donations to the funds of the Association by any lawful means.
- (9) To co-operate with other associations having similar objects with a view to the promotion of the objects of this Association.
- (10) To make, accept, endorse, discount and execute promissory notes, bills of exchange and other negotiable instruments.
- (11) To invest the moneys of the Association not immediately required for the purposes of the Association in or upon such securities and in such manner as may from time to time be deemed expedient provided that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners or Board of Education shall not be invested except in such securities and with such sanction (if any) as may for the time being be required by law.
- (12) To borrow or raise money for the purposes of or in connexion with the Association's objects and to secure the same by mortgage or charge of any property of the Association or by the issue of debentures or debenture stock, charged on its undertaking or otherwise, or in any other manner as may be deemed expedient.
- (13) To do all such other things as may be thought calculated to promote the interests and well-being of the Universities of the British Empire or any of them.
- (14) To do all such other things as may be incidental or conducive to the attainment of the above objects or any of them.

Provided that the Association shall not support with its funds any object or endeavour to impose on or procure to be observed by its Members or others any regulation, restriction or condition which if an object of the Association would make it a Trade Union.

Provided also that in case the Association shall take or hold any property subject to the jurisdiction of the Charity Commissioners or Board of Education for England and Wales, the Association shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law, and as regards any such property the Managers or Trustees of the Association shall be chargeable for such property as may come into their hands, and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as they would as such Managers or Trustees have been if no incorporation had been effected, and the incorporation of the Association shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Board of Education over such Managers or Trustees, but they shall, as regards any such property, be subject jointly and separately to such control or authority as if the Association were not incorporated. In case the Association shall take or hold any property which may be subject to any trusts, the Association shall only deal with the same in such manner as allowed by law having regard to such trusts.

4. The income and property of the Association, whencesoever derived, shall be applied solely towards the promotion of the objects of the Association as set forth in this Memorandum of Association; and no portion thereof shall be paid or transferred directly or indirectly by way of dividend, bonus, or otherwise howsoever by way of profit, to the Members of the Association.

Provided that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration to any officer or servant of the Association, or to any Member of the Association, in return for any services actually rendered to the Association, nor prevent the payment of interest at a rate not exceeding 5 per cent per annum on money lent or reasonable and proper rent for premises demised or let by any Member to the Association; but so that no Member of the Executive Committee or Governing Body of the Association shall be appointed to any salaried office of the Association, or any office of the Association paid by fees, and that no remuneration or other benefit in money or moneys worth shall be given by the Association to any Member of such Committee or Governing Body except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Association; Provided that the provision last aforesaid shall not apply to any payment to any railway, gas, electric lighting, water, cable or telephone company of which a Member of the Executive Committee or Governing Body may be a Member or any other company in which such Member shall not hold more than one-hundredth part of the capital, and such Member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration, or amendment shall be made to or in the regulations contained in the Articles of Association for the time being in force, unless the same shall have been previously submitted to and approved by the Board of Trade.

6. The 3rd and 4th Paragraphs of this Memorandum contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of Section 20 of the Companies (Consolidation) Act, 1908.

7. The liability of the Members is limited.

8. Every Member of the Association undertakes to contribute to the assets of the Association, in the event of the same being wound up during the time that he is a Member, or within one year afterwards, for payment of the debts and liabilities of the Association contracted before the time at which he ceases to be a Member, and of the costs, charges and expenses of winding up the same, and for the adjustment of the rights of the contributories amongst themselves, such amount as may be required not exceeding One Pound.

9. If upon the winding up or dissolution of the Association there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the Members of the Association, but shall be given or transferred to some other institution or institutions having objects similar to the objects of the Association, and which shall prohibit the distribution of

its or their income and property amongst its or their Members to an extent at least as great as is imposed on the Association under or by virtue of Clause 4 hereof, such institution or institutions to be determined by the Members of the Association at or before the time of dissolution, or in default thereof by such Judge of the High Court of Justice as may have or acquire jurisdiction in the matter, and if and so far as effect cannot be given to the aforesaid provision then to some charitable object.

10. True accounts shall be kept of the sums of money received and expended by the Association, and the matter in respect of which such receipts and expenditure take place, and of the property, credits, and liabilities of the Association; and, subject to any reasonable restrictions as to the time and manner of inspecting the same that may be imposed in accordance with the regulations of the Association for the time being, shall be open to the inspection of the Members. Once at least in every year the accounts of the Association shall be examined, and the correctness of the balance-sheet ascertained by one or more properly qualified Auditor or Auditors.

## ARTICLES OF ASSOCIATION

### PRELIMINARY

1. The number of the Members of the Association is declared not to exceed 100, but the Council may at any time register an increase in the number of the Members.

2. These Articles shall be construed with reference to the provisions of the Companies Act, 1929, and terms used in these Articles shall be taken as having the same respective meanings as they have when used in that Act.

3. The Association is established for the purposes expressed in the Memorandum of Association.

### MEMBERSHIP

4. The Members of the Association shall consist of corporate bodies with the following status:—

- (a) *Ordinary Members* who shall be (i.) such of the Universities specified in Schedule A attached to these Articles as sign the undertaking required by Article 5, and (ii.) such Universities situate within the British Empire, which may be hereafter incorporated, as are admitted members by the Council in accordance with such regulations as may be framed by the Council in this behalf.
- (b) *Associate Members* who shall be such Universities in mandated territories and such other institutions being University Colleges or Colleges of Universities within the Empire (being corporate bodies), as may hereafter be admitted members by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

- (c) *Such other classes of members* (consisting of corporate bodies) as may from time to time be admitted by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

5. Every Member shall sign an undertaking in such form as the Council may require to observe and perform all the conditions and provisions of the regulations of the Association for the time being in force, and thereupon the name of such Member shall be entered in the register of Members of the Association.

6. Ordinary Members shall have full rights of membership. Other Members shall be entitled to such of the privileges and benefits of the Association as may be assigned to them from time to time by the Council.

7. Every Member shall nominate a person to act as its representative. Such nomination shall be in writing and shall be deposited at the registered office of the Association. Such representative shall have the right on behalf of the Member to exercise all such rights of membership as may have been assigned to such Member by these Articles or by Regulations framed by the Council. A Member may from time to time in writing revoke the nomination of such representative, and nominate another representative in his place.

8. Any Member may withdraw from the Association by giving notice in writing to the Secretary before the expiration of any financial year, and on paying with such notice any unpaid subscription for the current year. Thereupon such Member shall be deemed to have ceased to be a Member from the date of the expiration of such financial year.

9. Upon the retirement of any Member by notice as stated in Article 8 the Member shall not be entitled to any repayment of any subscription or any part thereof paid for the current year.

10. The rights of any Member shall not be transferable and shall cease upon the Member failing to pay the annual subscription within twelve months of its becoming due. Any such Member may be re-admitted to membership upon payment of the subscription for the year during which its membership lapsed.

#### DUTIES OF MEMBERS

11. Every Member of the Association shall be bound :—

- (a) To pay to the Association such minimum annual subscriptions for the various classes of members as may be fixed by the Association at its first General Meeting after the adoption of these Articles, and as may subsequently be fixed from time to time at Extraordinary Meetings held during the progress of Quinquennial Congresses, under the provisions of Article 35.
- (b) To observe the provisions of these presents and of the Memorandum of Association and all the bye-laws, rules and regulations of the Association for the time being in force.

#### COUNCIL OF THE ASSOCIATION

12. The Executive of the Association shall be a Council consisting

of 21 persons chosen from the representatives of Ordinary Members as follows :—

Member Universities of Great Britain and Ireland	9 representatives
“ “ “ Canada	3 “
“ “ “ Australia	2 “
“ “ “ New Zealand	1 representative
“ “ “ South Africa	2 representatives
“ “ “ India	3 “
“ “ “ other parts of the British Empire	1 representative.

13. The Members of the Council shall be appointed by the Association in General Meeting for a period of one year on the respective nominations of the Ordinary Members of the Association for the several territories specified in Article 12.

14. The office of a Member of the Council shall *ipso facto* be vacated if his appointment as a representative of a Member is withdrawn by the Member appointing him, or if the Corporation appointing him ceases to be a Member of the Association.

15. Casual vacancies shall be filled by the Council from amongst the representatives nominated by Ordinary Members under the provisions of Article 7. The person so appointed shall hold office until the Annual Meeting next after his appointment, but he shall then be eligible for re-election if nominated in accordance with the terms of Article 13.

16. No act or resolution of the Council shall be invalidated by reason of the existence of any vacancy or vacancies among Members of the Council, but if the number of Members of the Council shall be reduced below 13 the continuing Members may act for the purpose only of filling vacancies or summoning a General Meeting of the Association.

17. The Council shall manage and control all matters relating to the management and organisation of the Association and may exercise all such powers of the Association as are not by the Companies Act, 1929, or by these Articles required to be exercised by the Association in General Meeting subject nevertheless to any regulation of these Articles, to the provisions of the said Act, and to such regulations being not inconsistent with the aforesaid regulations or provisions, as may be prescribed by the Association in General Meeting ; but no regulation made by the Association in General Meeting shall invalidate any prior act of the Council, which would have been valid if that regulation had not been made.

18. The Council may appoint, in consultation with the appropriate groups of Universities, special Committees to study and report on questions of interest to the Universities in more than one region of the Empire and shall provide the necessary secretarial assistance for such Committees, but if such assistance involves exceptional expenditure, they may make it a condition of providing such assistance that a special subvention be made by the Universities concerned.

19. The Council shall study and report on, either by means of special Committees or otherwise as may be appropriate in each case, any questions referred to them by any Conference or Congress of Universities,

but if exceptional expenditure is involved they may make it a condition of undertaking the inquiry that a special subvention be made by the Universities concerned.

20. The Council may elect a Chairman of their meetings and determine the period for which he is to hold office, but if no such Chairman is elected, or if he should not be present at the commencement of any meeting of the Council, the members of the Council shall select a Chairman from those present for that meeting.

21. The Chairman of the Council may at any time, and the Secretary upon the request of six Members of the Council shall, convene a meeting of the Council. In the case of a meeting convened at the request of six Members the notice of meeting shall state the character of the business to be discussed, and only business of which notice shall have been so given shall be discussed at that meeting. Each Member of the Council shall name an address in the United Kingdom at which all notices shall be served upon him, and all notices served at such address shall be deemed to be well served. Questions arising at any meeting of the Council shall be decided by a majority of Members present and voting at such meeting. In the event of the votes being equally divided the Chairman shall have a second or casting vote.

22. The quorum for a meeting of the Council shall be five.

23. A meeting of the Council for the time being at which a quorum is present shall be competent to exercise all or any of the authorities, powers and discretions by or under the Articles of Association for the time being vested in or exercisable by the Council generally.

24. The Council may delegate such of its powers as it considers desirable to any Committee consisting of Members of the Council.

25. The meetings and proceedings of any such Committee shall be governed by the provisions herein contained for regulating the meetings and proceedings of the Council, so far as the same are applicable thereto.

26. The Council may from time to time appoint a Secretary of the Association and any other officers or servants who may be required for the performance of the business of the Association or of the Council and may from time to time appoint a temporary substitute for the Secretary who, in the absence of the Secretary, shall be deemed to be the Secretary.

27. All acts done by any meeting of the Council or by any person acting as a Member of the Council shall notwithstanding that it shall be afterwards discovered that there was some defect in the appointment of the Council, or persons acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed and was qualified to be a Member of the Council.

28. Without prejudice to the generality of the powers conferred upon the Council by Article 17 the Council may from time to time frame regulations (a) generally to give effect to the provisions of the Memorandum of Association and of these Articles and (b) particularly for the following purposes:—

- (1) for admitting Universities which may hereafter become corporations;
- (2) for admitting as Associate members Corporations which are Universities in mandated territories and other institutions

being University Colleges or Colleges of Universities within the Empire ;

- (3) for assigning privileges of membership to (a) Associate members and (b) other classes of members ;
- (4) for prescribing a form to be signed by members prior to admission as members ;
- (5) for prescribing the manner in which the groups of Universities referred to in Article 12 shall appoint representatives ;
- (6) for managing the business and defining the duties of the Association ;
- (7) for delegating to Committees of the Council such of its powers as are not inconsistent with the provisions of these Articles ;
- (8) for fixing the manner of the appointment of the special Committees referred to in Articles 18 and 19 ;
- (9) for arranging for the provision of secretarial assistance to such Committees ; and for assessing any exceptional expenditure involved and distributing it amongst Universities concerned ;
- (10) for determining the period for which the Chairman of the Council is to hold office ;
- (11) for defining the manner in which the minutes of business transacted at meetings of the Association are to be recorded ;
- (12) for providing for the custody of the seal and for determining the officer of the Association other than the Secretary who may countersign instruments to which the seal is attached ;
- (13) for prescribing the form in which instruments appointing proxies shall be framed ;
- (14) for prescribing the books of account which have to be maintained in accordance with the provisions of Article 60 ;
- (15) for prescribing the place at which such books of account shall be kept.

Provided always that no regulation made by the Council shall have any validity or effect if it amounts to or involves such an alteration of or addition to these Articles as could only lawfully be made by Special Resolution.

#### MINUTES

29. The Council shall cause minutes to be duly entered in books provided for the purpose of all business transacted at General and Extraordinary Meetings and at meetings of the Council and Committees thereof.

30. Any such minutes of any meeting of the Council or of Committees thereof, or of the Association, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be conclusive evidence of the matters stated in such minutes.

31. The Council shall submit to the Annual General Meeting of the Association a report of its work and activities during the preceding year.

#### SEAL

32. The Council shall provide for the safe custody of the seal, and



the seal shall never be used except by the authority of the Council previously given, and in the presence of a Member of the Council, who shall sign every instrument to which the seal is affixed, and every such instrument shall be countersigned by the Secretary or some other person appointed by the Council.

#### GENERAL MEETINGS

33. A General Meeting of the Association shall be held once at least in every calendar year in London or such other University town and at such time as may be determined by the Council provided that a General Meeting shall be held within not more than fifteen months after the holding of the last General Meeting.

34. The above-mentioned General Meetings shall be called Ordinary Meetings, all other General Meetings shall be called Extraordinary Meetings.

35. An Extraordinary Meeting of the Association shall be held during the progress of each Quinquennial Congress of Universities of the Empire or within three days of the commencement or termination of that Congress.

36. Notwithstanding any provisions to the contrary in these Articles the Chairman shall have power at any Extraordinary Meeting summoned under the provisions of Article 35 to place on the agenda matters which have been the subject of a resolution passed by the delegates at the Quinquennial Congress during which the Extraordinary Meeting is being held.

37. The Council may whenever it thinks fit and it shall upon a requisition made in writing and signed by Members entitled to vote representing not less than one-tenth of the total voting rights of all the Members having at the date of the requisition a right to vote at General Meetings of the Association convene an Extraordinary Meeting. The Secretary shall at any time when required by the Chairman of the Council summon an Extraordinary Meeting.

38. Any requisition made by the Members of the Association entitled to vote as aforesaid shall express the object of the meeting proposed to be called and shall be left at the registered office of the Association.

39. Upon the receipt of such requisition the Council shall forthwith proceed to convene an Extraordinary Meeting and if they neglect to do so for twenty-one days from the time of the requisition being so left the requisitionists or any of them representing more than one half of the total voting rights of all of them may themselves convene the meeting in the same manner as nearly as possible as that in which meetings are to be convened by the Council.

40. The business of an Ordinary Meeting shall be :—

- (a) To receive and consider the accounts, the balance sheet and the reports of the Council and the Auditors ;
- (b) To appoint an Auditor or Auditors and fix his or their remuneration.
- (c) To appoint the Members of Council in accordance with the provisions of Article 13.

All other business transacted at an Ordinary Meeting and all business transacted at an Extraordinary Meeting shall be deemed special. If any Member has any proposal or any matter which he wishes to make or bring before an Ordinary Meeting he shall give fourteen days' written notice thereof to the Secretary.

41. Subject to the provisions of Section 117 (2) of the Companies Act, 1929, relating to Special Resolutions, twenty-eight days' notice at the least (or in the case of a meeting convened pursuant to a requisition of Members fourteen days' notice at the least) exclusive of the day of giving the notice but inclusive of the day of the meeting, specifying the place, the day and hour of meeting and (in case of special business) the general nature of such business, shall be given by notice to the Members in manner hereinafter stated with reference to the giving of notices, but the accidental omission to give such notice to or the non-receipt of such notice by any Member shall not invalidate the proceedings of any meeting. It shall not be necessary to give notice of a meeting to a representative of a Member who has no registered address in the United Kingdom.

42. Except as otherwise provided by these presents no business shall be transacted at any General Meeting unless a quorum of Members entitled to vote is present at the time when the meeting proceeds to business.

43. A quorum shall consist of ten Ordinary Members.

44. If within half-an-hour from the time appointed for a meeting ten Ordinary Members entitled to vote are not present the meeting if convened upon a requisition of Members shall be dissolved but in any other case it shall stand adjourned to a place to be fixed by the Chairman and to a date to be fixed by the Chairman not earlier than two weeks and not later than one month after the date of the original meeting, and if at such adjourned meeting a quorum is not present but two or more Ordinary Members entitled to vote are present the Members present entitled to vote shall be a quorum and may transact the business for which the original meeting was called.

45. At any adjourned General Meeting the Ordinary Members present entitled to vote being two or more in number shall have the power to decide upon all matters which could properly have been disposed of at the meeting from which the adjournment took place had a sufficient number of Members entitled to vote been present at such meeting. Notice of the time and place fixed by the Chairman for an adjourned meeting shall be given to all Members entitled to receive notices of meetings.

46. The Chairman of the Council shall be the Chairman of every General Meeting, but if within fifteen minutes from the time appointed for holding the meeting he is not present the Members present at the meeting and entitled to vote shall choose a Member entitled to vote to act as Chairman in his place.

47. The Chairman may upon the resolution of the meeting adjourn any meeting from time to time and from place to place but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place.



56. Only representatives of Members entitled to vote shall be appointed proxies.

57. The instrument appointing a proxy shall be deposited at the registered office of the Association or delivered to the Secretary not less than forty-eight hours before the time appointed for holding the meeting at which the person named in such instrument proposes to vote.

58. No objection shall be made to the validity of any vote except at the meeting or poll at which such vote shall be tendered and every vote whether given personally or by proxy not disallowed at such meeting or poll shall be deemed valid for all purposes of such meeting or poll whatsoever.

59. The Chairman of any meeting shall be the sole and absolute judge of the validity of every vote tendered at such meeting or poll and may allow or disallow the votes tendered according as he shall be of opinion that they are or are not valid.

#### ACCOUNTS

60. The Council shall cause proper books of account to be kept with respect to :—

- (a) all sums of money received and expended by the Association and the matters in respect of which the receipts and expenditure take place ;
- (b) all sales and purchases of goods by the Association ;
- (c) the assets and liabilities of the Association.

61. The books of account shall be kept at such place as the Council may from time to time appoint, and subject to any reasonable restrictions as to the time and manner of inspecting them that may be imposed by the Association in General Meeting, the books of account shall be open to the inspection of the Members at all times during the usual business hours.

62. The Council shall from time to time, in accordance with Section 123 of the Act, cause to be prepared and to be laid before the Association in General Meeting such income and expenditure accounts, balance sheets and reports as are referred to in that section.

63. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Association in General Meeting together with a copy of the auditor's report shall not less than seven days before the date of the meeting be sent to all persons entitled to receive notices of General Meetings of the Association.

#### AUDIT

64. Auditors shall be appointed and their duties regulated in accordance with Sections 132, 133 and 134 of the Companies Act, 1929.

#### NOTICES

65. A notice may be given by the Association to any Member either personally to the representative of such Member or by sending it by post to such representative to his address in the United Kingdom. Every representative of a Member shall furnish to the Association an address in the United Kingdom at which notices may be served.

66. Where a notice is sent by post, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting a letter containing the notice, and, unless the contrary is proved, to have been effected on the day succeeding that on which it was posted.

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#### SCHEDULE A. (*Vide* Article 4 (a))

##### UNIVERSITIES OF GREAT BRITAIN AND IRELAND

*England and Wales* : Birmingham, Bristol, Cambridge, Durham, Leeds, Liverpool, London, Manchester, Oxford, Reading, Sheffield, Wales.

*Scotland* : Aberdeen, Edinburgh, Glasgow, St. Andrews.

*Ireland* : The Queen's University of Belfast ; University of Dublin, Trinity College ; the National University of Ireland.

##### UNIVERSITIES OVERSEAS

*Canada* : Acadia, Alberta, Bishop's College, British Columbia, Dalhousie, King's College, Laval, McGill, McMaster, Manitoba, Montreal, Mount Allison, New Brunswick, Ottawa, Queen's, St. Francis Xavier, Saskatchewan, Toronto, Western Ontario.

*Australia* : Adelaide, Melbourne, Queensland, Sydney, Tasmania, Western Australia.

*New Zealand* : The University of New Zealand.

*South Africa* : Cape Town, Pretoria, South Africa, Stellenbosch, Witwatersrand.

*Malta* : The University of Malta.

*India* : Agra, Aligarh Muslim University, Allahabad, Andhra, Annamalai, Benares Hindu University, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Osmania University, Panjab, Patna.

*Hong-Kong* : The University of Hong Kong.

*Burma* : The University of Rangoon.

# MEMBERS OF THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE, TOGETHER WITH THEIR RE- PRESENTATIVES (as at March 1, 1938)

## (i) Ordinary Members

### ENGLAND AND WALES

<i>University</i>	<i>Representative</i>
Birmingham . . . .	Sir Charles Grant Robertson, C.V.O., M.A., LL.D.
Bristol . . . . .	Thomas Loveday, M.A., LL.D.
Cambridge . . . . .	Will Spens, C.B.E., M.A., LL.D.
Durham . . . . .	J. F. Duff, M.A., M.Ed.
Leeds . . . . .	Sir James B. Baillie, O.B.E., M.A., D.Phil., LL.D., Cav. Uff., Corona d'Italia.
Liverpool . . . . .	A. D. McNair, C.B.E., M.A., LL.D.
London . . . . .	H. L. Eason, C.B., C.M.G., M.D., M.S., F.R.C.S.
Manchester . . . . .	J. S. B. Stopford, M.D., Sc.D., F.R.S.
Oxford . . . . .	A. D. Lindsay, C.B.E., M.A., LL.D.
Reading . . . . .	Sir T. Franklin Sibly, D.Sc., LL.D.
Sheffield . . . . .	A. W. Pickard-Cambridge, M.A., D.Litt., LL.D., F.B.A.
Wales . . . . .	Ifor L. Evans, M.A.

### SCOTLAND

Aberdeen . . . . .	W. Hamilton Fyfe, M.A., LL.D., F.R.S. Can.
Edinburgh . . . . .	Sir Thomas H. Holland, K.C.S.I., K.C.I.E., LL.D., D.Sc., F.R.S.
Glasgow . . . . .	Sir Hector J. W. Hetherington, M.A., LL.D.
St. Andrews . . . . .	Sir James C. Irvine, C.B.E., D.C.L., LL.D., D.Sc., Sc.D., Ph.D., F.R.S.

### IRELAND

Queen's, Belfast . . . .	F. W. Ogilvie, M.A.
Dublin, Trinity College . .	W. E. Thrift, M.A., Sc.D.
National University of Ireland	Denis J. Coffey, M.A., LL.D., M.B., B.Ch., B.A.O.

### CANADA

Alberta . . . . .	C. M. MacInnes, M.A.
Bishop's College (Univ. of)	Professor F. A. P. Aveling, M.C., D.Lit., Ph.D., D.Sc.

## xxvi MEMBERS OF THE UNIVERSITIES BUREAU

British Columbia . . .	R. L. Vollum, M.A., D.Phil.
Dalhousie . . .	J. Cameron, O.B.E., D.Sc., M.D., M.R.C.S., F.R.S.C.
McGill . . .	T. F. Cotton, B.A., M.D., F.R.C.P.
Mount Allison . . .	G. J. Trueman, M.A., Ph.D.
Queen's, Ontario . . .	H. P. Biggar, D.Litt.
Saskatchewan . . .	A. E. Cameron, M.A., D.Sc.
Toronto . . .	C. S. Wright, C.B., O.B.E., M.C., M.A.
Western Ontario . . .	Lewis R. Yealland, M.D., M.R.C.P.

### AUSTRALIA

Adelaide . . .	Professor H. Darnley Naylor, M.A.
Melbourne . . .	Professor J. I. O. Masson, M.B.E., D.Sc., F.I.C.
Queensland . . .	R. L. Hall, M.A.
Sydney . . .	Professor J. T. Wilson, M.A., LL.D., M.B., Ch.M., F.R.S.

### NEW ZEALAND

New Zealand . . .	A. J. Harrop, M.A., Ph.D.
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### SOUTH AFRICA

Cape Town . . .	Rt. Hon. Lord Lugard, G.C.M.G., C.B., D.S.O., D.C.L., LL.D.
South Africa . . .	W. A. Horrocks, B.Com.
Witwatersrand . . .	William Cullen, LL.D.

### INDIA

Annamalai . . .	Professor Sir Sarvapalli Radhakrishnan, M.A., D.Litt.
Calcutta . . .	Sir Ewart Greaves.
Madras . . .	Sir Ramaswami Mudaliar.
Osmania . . .	B. C. McEwen, M.C., B.Sc.
Panjab . . .	Rt. Hon. Sir Shadi Lal, P.C., M.A., B.C.L.
Patna . . .	H. Lambert, M.A.

### OTHER PARTS OF THE EMPIRE

Malta . . .	Adrian Dingli, O.B.E., M.A., LL.D., Jur.D.
Hong-Kong . . .	Sir William Peel, K.C.M.G., K.B.E., M.A., LL.D.
Rangoon . . .	Sir Benjamin H. Heald, V.D., M.A., LL.D.

### (ii) Associate Members

<i>College</i>	<i>Representative</i>
University College of the South West of England, Exeter . . .	J. Murray, M.A., LL.D.
University College, Nottingham . . .	H. A. S. Wortley, M.A.
University College, Southamp- ton . . .	K. H. Vickers, M.A.
University of Otago, N.Z. . .	W. P. Morrell, M.A., D.Phil.
Auckland University College, N.Z. . .	A. J. Harrop, M.A., Ph.D.

## MEMBERS OF THE UNIVERSITIES BUREAU xxvii

Canterbury University College,	
Christchurch, N.Z.	. . . A. J. Harrop, M.A., Ph.D.
Victoria University College,	
Wellington, N.Z.	. . . A. J. Harrop, M.A., Ph.D.
Hebrew University of Jer-	
usalem	. . . Prof. S. Brodetsky, M.A., Ph.D.

### (iii) Additional Members

<i>College</i>	<i>Representative</i>
Municipal College of Techno-	
logy, Manchester	. . . B. Mouat Jones, D.S.O., M.A.
Royal Technical College, Glas-	
gow	. . . Sir Arthur J. C. Huddleston, C.M.G., O.B.E., M.A.
King Edward VII College of	
Medicine, Singapore	. . . F. J. Morten, B.A.
Raffles College, Singapore	. . . . .



## THE EXECUTIVE COUNCIL

*(Appointed under Articles 12 and 13 of the Articles of Association at the First General Meeting held in London on the 24th September 1932)*

### REPRESENTATIVES NOMINATED BY MEMBER UNIVERSITIES

#### UNIVERSITIES OF GT. BRITAIN AND IRELAND

A. D. LINDSAY, C.B.E., M.A., LL.D. (Oxford)	Oxford
WILL SPENS, C.B.E., M.A., LL.D. (Cambridge)	Cambridge
H. L. EASON, C.B., C.M.G., M.D., M.S., F.R.C.S. (London)	} London
THOMAS LOVEDAY, M.A., LL.D. (Bristol)	
IFOR L. EVANS, M.A. (Wales)	} Birmingham, Bristol, Durham, Leeds, Liver- pool, Manchester, Reading, Sheffield and Wales
Sir T. FRANKLIN SIBLY, D.Sc., LL.D. (Reading)	
W. HAMILTON FYFE, M.A., LL.D., F.R.S. Can. (Aberdeen)	
F. W. OGILVIE, M.A. (Belfast)	} Aberdeen, Edinburgh, Glasgow, St. Andrews and Belfast
DENIS J. COFFEY, M.A., LL.D., M.B., B.Ch., B.A.O. (National University of Ireland)	
	} Dublin and National

#### UNIVERSITIES OF CANADA

- A. E. CAMERON, M.A., D.Sc. (Saskatchewan)  
T. F. COTTON, B.A., M.D., F.R.C.P. (McGill)  
C. S. WRIGHT, C.B., O.B.E., M.C., M.A. (Toronto)

#### UNIVERSITIES OF AUSTRALIA

- Professor J. I. O. MASSON, M.B.E., D.Sc., F.I.C.  
(Melbourne)  
Professor J. T. WILSON, M.A., LL.D., M.B., Ch.M.,  
F.R.S. (Sydney)

#### UNIVERSITY OF NEW ZEALAND

- A. J. HARROP, M.A., Ph.D. (New Zealand)

# THE EXECUTIVE COUNCIL

xxix

## UNIVERSITIES OF SOUTH AFRICA

WILLIAM CULLEN, LL.D. (Witwatersrand)

W. A. HORROCKS, B.Com. (South Africa)

## UNIVERSITIES OF INDIA

B. C. McEWEN, M.C., B.Sc. (Osmania)

Sir RAMASWAMI MUDALIAR (Madras)

Professor Sir SARVAPALLI RADHAKRISHNAN, M.A.,  
D. Litt. (Annamalai)

## UNIVERSITIES OF OTHER PARTS OF THE EMPIRE

### HONG-KONG, MALTA, RANGOON

Sir BENJAMIN H. HEALD, V.D., M.A., LL.D. (Rangoon)

Chairman: WILL SPENS, C.B.E., M.A., LL.D.

Hon. Treasurer: Sir T. FRANKLIN SIBLY, D.Sc., LL.D.

Secretary: W. B. BRANDER, C.I.E., C.B.E., M.A.

# UNIVERSITIES BUREAU OF THE BRITISH EMPIRE

## REPORT OF THE EXECUTIVE COUNCIL, TOGETHER WITH THE ACCOUNTS OF THE BUREAU FOR THE YEAR 1ST AUGUST 1936 TO 31ST JULY 1937

### I. MEMBERSHIP OF THE BUREAU

A list of the Ordinary, Associate and Additional Members of the Universities Bureau of the British Empire, with the names of their representatives, is given at the beginning of this Report.\* The Ordinary Members now number forty-six as compared with forty-seven last year. The number of Associate Members remains the same. The number of Additional Members has increased from one to four.

### 2. ALTERATION OF ARTICLES OF ASSOCIATION

At an Extraordinary General Meeting of the Universities Bureau of the British Empire, held at Cambridge on 14th July 1936, a Special Resolution was passed, making the following amendments in the Articles of Association :—

Schedule A : Delete Rangoon, and substitute a full-stop for the comma after Patna in the list of Universities of India.

Add at the end of the Schedule :—

BURMA : The University of Rangoon.

This Resolution was given effect to on 1st April 1937, when the separation of Burma from India became effective.

### 3. THE COMMITTEE OF VICE-CHANCELLORS AND PRINCIPALS

The Committee of Vice-Chancellors and Principals, under the Chairmanship of Dr. T. Loveday, continued to employ the Bureau as its Secretariat. Mr. H. L. Eason succeeded the late Sir Edwin Deller as Principal of the University of London. Sir Robert H. Pickard succeeded Mr. H. L. Eason as Vice-Chancellor of the University of London. Sir Hector Hetherington succeeded the late Sir Robert S. Rait as Vice-Chancellor and Principal of the University of Glasgow. The late Professor J. L. Stocks succeeded Sir Hector Hetherington as

\* See p. xxv.

Vice-Chancellor of the University of Liverpool. Dr. D. J. Coffey succeeded Dr. P. J. Merriman as Vice-Chancellor of the National University of Ireland. Dr. W. E. Thrift succeeded Dr. E. J. Gwynn as Provost of Trinity College, Dublin. Mr. H. A. S. Wortley represented the three University Colleges.

The Committee of Vice-Chancellors and Principals regret to record the deaths of Sir Edwin Deller, Sir Henry Hadow, and Professor J. L. Stocks.

The quarterly meetings were held on 26th September 1936, 19th December 1936, 13th March 1937, and 10th July 1937.

Amongst subjects discussed during the year by the Committee were Regulations of the General Medical Council for the First M.B. Examination; Period of Study for the Ph.D. Degree in Overseas Universities; International University Sanatorium at Leysin; Jane Eliza Proctor Visiting Fellowships; Memorandum on the Suitability of South African Students for Admission to Universities in this Country; Exchanges of Students; International Conference in Paris on Higher Education; The Universities and Physical Instruction; Age of Selection for Teachers' Training Grants; Universities China Committee: Professorships and Readerships in Chinese; Admission of Chinese Students to Universities in this Country; Celebration of the Centenary of the University of Athens; Celebration of the Bicentenary of the University of Göttingen; Panel of Advisers in London to give Information regarding Facilities for Post-graduate Work; Proposed Investigation into the Higher School Certificate Examination; Draft Unemployment Insurance Regulations; Gift of Books to British Universities by the French Government.

In addition, some of the subjects referred to in last year's Report were further considered.

Professor F. Clarke was nominated in place of Sir Percy Nunn and Professor G. S. Veitch in place of Sir Hector Hetherington on the Central Advisory Committee for the Certification of Teachers.

Professor A. D. McNair, Vice-Chancellor Elect of the University of Liverpool, was nominated in place of the late Professor J. L. Stocks, and Sir Hector Hetherington and Dr. J. S. B. Stopford were re-nominated, as representatives of the Committee on the Boards of Architectural Education of the Architects' Registration Council and the Royal Institute of British Architects for the year 1937-38.

Dr. T. Loveday was reappointed to serve as a member of the Executive Committee of the British Institute in Paris. Dr. T. Franklin Sibly was appointed in place of the late Sir Edwin Deller. At the meeting on 10th July, Mr. H. L. Eason, Principal of the University of London, was nominated in Dr. Sibly's place.

Mr. Will Spens was appointed in succession to the late Sir Edwin Deller as the representative of the Committee on the Army Educational Advisory Board.

The Committee approved the grant of eight Free Passages to Australia and New Zealand.

At its meeting on 10th July 1937, the Committee re-elected Dr. T. Loveday as its Chairman for the ensuing year.

## 4. THE EXECUTIVE COUNCIL

On 26th September 1936 the following members of the Executive Council were appointed at the Annual General Meeting of representatives of the Members of the Association :—

*Universities of Great Britain and Ireland*

A. D. Lindsay . . . .	Oxford.
Will Spens . . . . .	Cambridge.
Sir Edwin Deller . . . .	London.
T. Loveday . . . . .	} Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Reading, Sheffield and Wales.
J. F. Rees . . . . .	
J. S. B. Stopford . . . .	
W. H. Fyfe . . . . .	
Sir James C. Irvine . . .	} Aberdeen, Edinburgh, Glasgow, St. Andrews and Belfast.
D. J. Coffey . . . . .	
	} Dublin and the National University of Ireland.

*Universities of Canada*

F. A. P. Aveling (University of Bishop's College).  
T. F. Cotton (McGill).  
A. E. Cameron (Saskatchewan).

*Universities of Australia*

J. I. O. Masson (Melbourne).  
J. T. Wilson (Sydney)

*University of New Zealand*

A. J. Harrop.

*Universities of South Africa*

W. A. Horrocks (South Africa).  
William Cullen (Witwatersrand).

*Universities of India*

Rt. Hon. Sir Shadi Lal (Panjab).  
Diwan Bahadur Sir A. Ramaswami Mudaliar (Madras).  
Sir Sarvapalli Radhakrishnan (Annamalai).

*Universities of other parts of the Empire : Hong-Kong and Malta*

Sir William Peel (Hong-Kong).

The Executive Council met on 26th September to consider the Annual Report and the Accounts for the Financial Year 1935-36. On 26th September the Executive Council, appointed at the Annual General Meeting, met and re-elected Mr. Will Spens as Chairman, and the late Sir Edwin Deller as Honorary Treasurer for the year 1936-37. At its meeting on 20th February the Executive Council appointed Dr. T. Franklin Sibly a member of the Council on the resignation of Dr. J. S. B. Stopford, and Honorary Treasurer in place of the late Sir Edwin Deller. The Executive Council met for ordinary business on 21st November 1936, 20th February 1937, and 22nd May 1937.

The Executive Council regret to record the deaths of Sir Edwin Deller, who was for many years Honorary Treasurer of the Bureau, and

## REPORT OF THE EXECUTIVE COUNCIL xxxiii

Dr. D. F. Fraser-Harris, representative of the University of Dalhousie on the Bureau.

Amongst other business considered by the Executive Council during the year was the discussion of the subjects dealt with by the Congress of the Universities of the Empire at Cambridge in July 1936.

With reference to "The Provision in Great Britain for Post-graduate Studies for British and Overseas Students," the Executive Council have appointed a Committee to draw up the panel of advisers, mentioned in connexion with inquiries addressed to the Bureau (*vide* page xxxv).

As far as British Universities are concerned, the Executive Council understand that the Committee of Vice-Chancellors and Principals is dealing with the question of "The Functions of Universities in the Training of Teachers."

As regards "Careers for University Students," the increased employment of Graduates in Local Government Services has been, and is being, further examined by the Committee of Vice-Chancellors and Principals.

The Council felt that no action on their part was possible in respect of the two subjects "General as an Alternative to Specialised Honours Courses," and "University Examination Methods"; but as regards "Physical Education in the Universities," the Executive Council have under consideration what further action, if any, can usefully be taken.

### 5. THE STAFF

The staff remains the same as in 1936.

### 6. SIXTH QUINQUENNIAL CONGRESS OF THE UNIVERSITIES OF THE BRITISH EMPIRE

The Executive Council accepted the invitation of the University of Manchester to hold the Sixth Quinquennial Congress of the Universities of the Empire at Manchester in July 1941.

### 7. GENERAL ADMINISTRATION

The Bureau continued to deal with post-graduate scholarships and other awards.

(1) *Carnegie Corporation Grant.* As stated in the Report for 1935-1936, no further awards are to be made under the scheme for the distribution of the Carnegie Corporation Grant. The Bureau, however, holds a small reserve which the Executive Council propose to use as occasion arises.

(2) *French Bourses.* Three Bourses, to the value of 7200 francs per annum with remission of fees, were offered by the French Government to graduates of British Universities for 1937-38. A Selection Committee considered nine applications and recommended that the awards should be made to: Miss Kathleen Cameron, B.A., Oxford, for a study of a fifteenth-century verse translation in French of Boethius; L. C. Sykes, B.A., Sheffield, for the completion of a thesis on "Madame Cottin et le roman sentimental" to be presented for the Degree of Doctor of Philosophy in the University of Oxford; G. Laughton, B.A., Sheffield, for a comparative study of French and Spanish Literature in

the fifteenth and sixteenth centuries, leading to the degree of Ph.D. C. M. Marks, B.A., Cambridge, who proposes to continue the study of applied design, was placed *proxime accessit*.

For the scholarships of £70 each per annum, offered annually by the Universities of Oxford and London, Monsieur Xavier Le Bègue de Germigny and Monsieur Max Lacroix were selected for 1937-38. Monsieur Lacroix will study Economics. The scholarship of £80, offered jointly by the Universities of Birmingham, Leeds, Manchester, and Sheffield, was awarded to Monsieur P. E. H. P. Gariel, who will study English Literature at the University of Sheffield. The scholarship of £80 offered by Colleges of the University of Cambridge, was awarded to Monsieur L. D. A. H. Fauvel, who will study Economics.

(3) *Thomas Carlyle Stipendium*. The Selection Committee appointed to consider applications for the Stipendium granted by the Deutsche Akademie in Munich, to the value of RM. 1200, awarded the grant to G. H. Evans, B.A., London.

(4) *Cecil Peace Prize*. This prize of the value of £100 was divided between Mr. G. A. Forrest, of the University of Oxford, and Mr. J. H. Parry, of the University of Cambridge, for essays on "The Causes of the Failure of the Disarmament Conference."

During the year the Bureau dealt with the following appointments : Professor of English Literature and Institutions at the University of Athens ; Vice-Chancellor of the University of Hong-Kong and Lecturer in Commerce at the University of Hong-Kong ; Professor of Philosophy and Lecturer in the Department of Education and Philosophy, and Professor of Education, at Canterbury University College, Christchurch, N.Z. ; Professor of Anatomy at the University of Adelaide ; Lecturers in Engineering and Geography at University College, Rangoon ; Professor of English Language and Literature at Victoria University College, Wellington, N.Z. ; Professor of Economics at Raffles College, Singapore ; Professor of History, Senior Lecturer in Economics, Assistant Director of Metallurgical Research, and Research Engineer at the University of Melbourne ; Supervisor of Turkish Students sent to this country by the Sümer Bank.

The Bureau also assisted in recruiting candidates for vacant appointments at other Universities and arranged for an exchange of Lecturers in the Departments of Engineering of the Universities of Melbourne and Sheffield.

As in previous years, the Executive Council desire to express their best thanks to the members of Selection Committees, who have readily given their services to the Bureau.

The Bureau assisted in arrangements for the exchange of Belgian and British Professors, and also for the visits of Japanese Professors to Universities in this country.

At the Extraordinary General Meeting of the Universities Bureau of the British Empire held at Cambridge on 14th July 1936, the following resolution was passed :—

" That this Extraordinary General Meeting of the members of the Universities Bureau of the British Empire recommend that the Executive Council should under Article 18 of the Articles of

## REPORT OF THE EXECUTIVE COUNCIL xxxv

Association, set up a committee to inquire into the possibility of effecting the exchange of members of University Teaching Staffs."

At its meeting on 21st November 1936, the Executive Council appointed a Committee consisting of the late Sir Edwin Deller, Dr. William Cullen and Dr. A. J. Harrop. It was further agreed that the Committee should have power to consult or to co-opt any others at their discretion, and Sir Walter Moberly was subsequently appointed as a member of the Committee in place of the late Sir Edwin Deller. This Committee has agreed that no useful purpose can be served by meeting until later in the year, when information may be available which may assist it to make practical recommendations.

At the same meeting, a second resolution was passed as follows:—

"That this Extraordinary General Meeting recommend to the Executive Council of the Universities Bureau of the British Empire that the Council arrange for inquiries to be made from overseas Universities regarding the extent to which degrees of British Universities are accepted as qualifications for teaching posts in the Dominions, and how far it is necessary to supplement them by an Education Diploma taken either in England or in the Dominion concerned."

As a result the Bureau instituted inquiries. A summary of the replies received was circulated to Universities.

One of the results of the publication of the Handbook for Students from Overseas has been a very great increase during the year in the number of inquiries, both in person and by letter, regarding University institutions—their admission requirements, their courses of study, and their facilities for research. The Bureau has been in a position to deal with these by making use of its collection of Calendars, Faculty Prospectuses, pamphlets relating to Higher Degrees, etc. Where the inquiries relate to specialist studies, the practice of the Bureau has been, where necessary, to consult experts, who have kindly given freely of their advice. The Executive Council desire to thank all those who have rendered this service to the Bureau.

On the suggestion of one of the representatives of Dominion Universities, the Executive Council propose to consider the possibility of drawing up a panel of advisers, who would be willing to assist students from overseas in selecting the courses of study best directed to the ends which they desire to achieve.

Information regarding students from overseas continues to be collected. The details supplied are collated, and a summary thereof is included annually in Appendix XXV\* of the Universities Yearbook. The existence of this information has, on numerous occasions, enabled the Bureau to answer statistical inquiries, without having to make separate references to Universities and University Colleges.

In last year's Report it was noted that the Executive Council had approved the introduction of a scheme whereby vacant appointments in Universities in Great Britain and Ireland should be communicated

\* Now Appendix VII.



to members of the staffs of Australian, New Zealand, and Indian Universities who had intimated that they desired to be considered for such vacancies. The Executive Council subsequently approved the extension of this scheme to other parts of the Empire. They, however, regret that, so far, comparatively few have indicated their desire to take advantage of this scheme. The Bureau has been able on its part to make known a number of vacancies to Conferences as well as to individuals.

Fifteen certificates of equivalence for the Baccalauréat and six certificates for admission to the University of Geneva were issued by the Bureau.

During the year the Secretary visited the Universities of Manchester (including the College of Technology), Sheffield, Edinburgh (including the Heriot-Watt College), the Queen's University, Belfast (including the College of Technology), the University Colleges of Aberystwyth, Bangor, Cardiff and Swansea, St. David's College, Lampeter, and the University College of Nottingham. He also attended meetings of representatives of Empire Societies.

The Secretary, who is an original member of the Universities' China Committee in London, was appointed a member of the Executive Council of that body with effect from 6th June 1936, and attended a conference of the Committee held at Oxford on the 9th and 10th of January 1937.

The Secretary attended a meeting of the Astor Scholarship Fund Sub-Committee on 17th September 1936, as the representative of the Principal of the University College of the South-West of England.

The Secretary was appointed to represent the Executive Council on the Advisory Committee of the British Council on British Teachers Abroad.

The Secretary attended meetings in Paris of an Experts' Commission convened by the International Student Service to inquire into the question of overcrowding in Universities and the unemployment of graduates.

The Secretary represented the Bureau at the opening ceremony of the Collège Franco-Britannique in Paris.

#### 8. UNIVERSITIES YEARBOOK

The Universities Yearbook for 1937 was published in March. The cost of production was about £30 in excess of the 1936 edition, mainly due to extensive revisional work and additions to the information supplied. The receipts from advertisements were £76 as compared with £78 in the previous year.

During the year the Executive Council decided that the concession of a reduction in the price from 15s. to 10s. to member University Institutions should be extended to members of the staffs of these institutions.

#### 9. HANDBOOK FOR STUDENTS FROM OVERSEAS

The Handbook for Students from Overseas was widely circulated, not only by the Universities Bureau, but also by the British Council, and is reported to have been extensively used by inquirers from over-

## REPORT OF THE EXECUTIVE COUNCIL xxxvii

seas. As was reported last year, copies of this handbook were sold to the British Council with a view to their being bound together with a pamphlet relating to institutions other than Universities. This double publication was issued in one volume—an arrangement which proved to be inconvenient for purposes of ready reference. In the new edition, issued as a joint publication by the two bodies, the information, particularly that relating to subjects of study, has now been amalgamated to form an outline of the facilities for higher education provided by Universities and other institutions in Great Britain and Ireland.

### 10. CONFERENCES

A meeting of the Australian Vice-Chancellors' Committee was held in March 1936. The following were amongst the topics discussed: Public Service Appointments; Carnegie Corporation Grants for Institute of Education Fellowships for Research and for Travelling Allowances; Provincial University Colleges. A Universities' Conference was held at Adelaide in February 1937. Public addresses were delivered by Dr. R. E. Priestley on "Problems of the English-Speaking University World"; Professor D. B. Copland on "Harvard University and Public Affairs"; Associate Professor A. C. V. Melbourne on "The Universities of China and Japan"; and Sir James Barrett on "The University of Wisconsin." The following subjects were discussed: The Universities and Life; Residential Colleges; Appointments Boards; Affiliated Colleges; Resolution of Headmasters' Conference on School Leaving Certificate; Federal Grant to Universities for Research. In addition, Statements were made on the subject of "Student Advisers" and Papers were read on the following subjects: New Zealand University Problems; Volunteer Work by Students; Adult Education in Western Australia.

A meeting of the National Conference of Canadian Universities was held in May 1937.

No report has been received of meetings of the Vice-Chancellors' Committee of the South African Universities.

The Inter-University Board, India, held its twelfth annual general meeting at Nagpur on the 15th and 16th of February 1937. Fifteen Universities and the Public Service Commission were represented at the Conference. In addition to formal business, the following subjects were discussed: The Institution of a Degree or Diploma in Pharmaceutical Chemistry; Reorganisation of University Studies in the light of the Sapru Committee Report; Recognition of Degrees of Indian Universities by other Universities; Provident Fund Accounts for University Employees; Provision of Special Lectures; Arrangements for the Issue of Migration Certificates; Proposed Quinquennial Athletic Meeting on All-India Basis; Uniformity in Courses of Study for the LL.B. Degree; Uniformity in the Pre-medical Courses of Study in Chemistry, Physics and Biology; Supply of Central and Provincial Government Publications to University Libraries; Uniformity in Matriculation and Admission Conditions; Inclusion of Aeronautical Instruction in the Curriculum of Indian Universities; National Centre of Educational Information in India.

## xxxviii REPORT OF THE EXECUTIVE COUNCIL

The Inter-University Board passed a resolution to the effect that it was desirable that Universities in India should join the Universities Bureau of the British Empire.

Pandit Amaranath Jha, M.A., of the University of Allahabad, was Chairman of the Inter-University Board during the year 1936-37. Mr. C. R. Reddy, M.A., M.L.C., Vice-Chancellor of Andhra University, was elected Chairman for the year 1937-38. Professor N. K. Sidhanta, M.A., of the University of Lucknow, was appointed Secretary of the Board for three years from 1st April 1937. The invitation of the University of Allahabad to hold the next meeting of the Inter-University Board at Allahabad was accepted.

WILL SPENS

*Chairman*

T. FRANKLIN SIBLY

*Hon. Treasurer*

W. B. BRANDER

*Secretary*

25th September 1937

## NOTE ON THE FINANCIAL STATEMENTS

### INTRODUCTORY

The form of presentation of the financial statements continues to follow the lines adopted from the year 1933-34 onwards. The Income Account shows the amount received from the publishers for sales of the Universities Yearbook, 1936.

In the Comparative Statements for the years 1933-34 to 1936-37 all entries relating to non-recurring items have been omitted from the Income and Expenditure Accounts.

### I. INCOME AND EXPENDITURE ACCOUNT

The excess of Income over Expenditure was £48 : 16 : 4. This has been added to the amount brought forward from last year (£443 : 3 : 7), leaving a balance of £491 : 19 : 11 carried to the Balance Sheet.

#### *Income*

The total income of the year was £4390 as compared with £4198 last year, an increase mainly due to the receipt of £228 for the Hand-book. Subscriptions show an increase of £10 over last year. Interest on investments has decreased by £62, owing to the sale of stock to meet Congress charges.

#### *Expenditure*

The total expenditure for the year is £4341 as compared with £4171 in 1935-36. The item Salaries is higher than last year as the staff has been at full strength throughout the year. Superannuation

payments have increased because the Secretary was admitted to the Scheme with effect from August 1935. Printing and Stationery shows a decrease and Postages and Telegrams an increase, but both would have been larger had not deductions been made from these items in respect of the recoveries from overseas Universities using the Bureau for the selection of candidates for appointments to vacancies. The item Miscellaneous shows an increase of £75 over the corresponding figure for 1935-36, an increase explained by the heavier charges for entertainment and by expenses incurred by the Secretary in the course of his tours of Universities and his visit to Paris. The other items under Administration and those under Maintenance require no comment. Small variations from year to year are inevitable. The cost of producing the Congress Report, 1936, was less than in 1931.

## 2. BALANCE SHEET

The main difference in the Balance Sheet as compared with last year is the transfer to the Bureau of the £1390 Southern Railway 4 per cent. Debenture Stock held on behalf of the Carnegie Corporation Fund at a book value of £1148:8:9. This was taken over at the price ruling on the day of the transfer, *i.e.* £1537:13:9.

After making grants of £1130 and repaying to the Bureau the amount of £185:7:4 outstanding at the end of last year, there remains a sum of £222:6:5, shown in the Balance Sheet, which the Executive Council are holding in reserve for expenditure on such purposes as they may deem appropriate.

The item Sundry Debtors includes £164 due from Universities overseas for charges incurred by the Bureau in making appointments and £39:10s. Income Tax refund.

## 3. CARNEGIE CORPORATION GRANT CAPITAL ACCOUNT

This account has now been closed as the capital sum available for grants has been exhausted.

## INCOME AND EXPENDITURE ACCOUNT FOR

## EXPENDITURE

	£	s.	d.	£	s.	d.
To Administration :—						
Salaries .. .. .	2214	18	4			
Superannuation .. .. .	282	16	8			
National Health Insurance .. .. .	15	10	11			
Printing and Stationery .. .. .	96	2	9			
Postages and Telegrams .. .. .	88	6	5			
Telephone .. .. .	26	12	4			
Books and Newspapers .. .. .	32	6	3			
Audit and Accountancy Fees .. .. .	15	15	0			
Miscellaneous .. .. .	194	16	7			
				2967	5	3
To Maintenance :—						
Rent .. .. .	150	0	0			
Rates .. .. .	79	2	6			
Heating and Lighting .. .. .	56	1	5			
Insurances .. .. .	6	3	8			
Household Expenses .. .. .	49	17	1			
Furniture and Fittings.. .. .	16	12	0			
Repairs and Decorations .. .. .	41	18	1			
				399	14	9
To other Charges :—						
Allowance to late Clerk .. .. .	25	0	0			
Yearbook, 1937.. .. .	639	16	1			
Lease Redemption Premium .. .. .	90	8	4			
Congress Report .. .. .	219	1	9			
				974	6	2
				£4341	6	2
To Balance, being excess of Income over Expenditure, carried down .. .. .				48	16	4
				£4390	2	6
To Balance, carried down .. .. .				£491	19	11
				£491	19	11

## THE YEAR 1st AUGUST 1936 to 31st JULY 1937

## INCOME

			£	s.	d.	£	s.	d.
By Subscriptions of Universities and University Colleges :—								
Great Britain and Ireland .. ..	..	..	2405	0	0			
Overseas .. .. .	..	..	1055	0	0			
						3460	0	0
„ Sales of Yearbook :—								
Publishers .. .. .	..	..	..	..	..	222	15	9
Sum received by the Bureau .. ..	..	..	..	..	..	46	18	2
„ Advertisements in Yearbook .. ..	..	..	..	..	..	76	12	4
„ Sales of Congress Reports .. ..	..	..	..	..	..	30	0	2
„ Sales of Handbook .. .. .	..	..	..	..	..	227	15	5
„ Cecil Peace Prize Contribution ..	..	..	..	..	..	10	0	0
„ Interest on Investments .. .. .	..	..	..	..	..	316	0	8
						£4390	2	6
By Balance from last year .. ..	..	..	..	..	..	£443	3	7
„ Balance brought down .. .. .	..	..	..	..	..	48	16	4
						£491	19	11
„ Balance brought down .. .. .	..	..	..	..	..	£491	19	11

BALANCE SHEET,

			£	s.	d.
Capital Account as per last Balance Sheet	..	..	10,302	17	1
Income and Expenditure Account (balance)	..	..	491	19	11
Carnegie Corporation Grant (Reserve)	..	..	222	6	5
Subscriptions received in advance for 1937-38	..	..	140	0	0
			£11,157	3	5

To : The Members,

The Universities Bureau of the British Empire.

We have audited the above Balance Sheet and have obtained all such Balance Sheet is properly drawn up so as to exhibit a true and of our information and the explanations given to us and as shown by

Spencer House, South Place E.C.2,  
24th August 1937.

JULY 31st, 1937

	£	s.	d.	£	s.	d.
Leasehold Building, 88A Gower Street, W.C., at cost as per last Balance Sheet ..				2,467	17	1
Note :—A Leasehold Redemption Policy of surrender value £653 : 9s. on 31st July 1937, has been taken out against this asset.						
Sundry Debtors .. .. .				216	10	10
Investments at cost :—						
£4000 3½% War Loan .. .. .	4,100	11	11			
£1100 5% Australia Stock, 1945/75 ..	1,003	18	0			
£869 : 9 : 4 3½% Australia Stock, 1954/59	900	0	0			
£700 Agricultural Mortgage Corporation Ltd. 5% Debenture Stock .. .. .	837	1	10			
£1390 4% Southern Railway Debenture Stock, 1962/67 .. .. .	1,537	13	9			
					8,379	5 6*
Cash at Bank on Current Account ..	88	9	1			
Cash in hand .. .. .	5	0	11			
					93	10 0
					£11,157	3 5

\* The market value of the Investments on 31st July 1937 was £8336.

the information and explanations we have required. In our opinion correct view of the state of the Bureau's affairs according to the best the books of the Bureau.

(Signed) KNOX, CROPPER & CO.  
Chartered Accountants.



FOUR YEARS'  
INCOME AND

EXPENDITURE	1933-34			*1934-35			*1935-36			1936-37		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Administration :—												
Salaries .. ..	2377	17	5	1897	7	4	2050	7	11	2214	18	4
Superannuation ..	59	13	4	50	0	0	38	8	9	282	16	8
National Health Insurance .. ..	9	13	3	12	2	0	14	0	3	15	0	11
Printing and Stationery	82	12	5	80	18	11	128	15	2	96	2	9
Postages and Telegrams	53	2	4	67	14	9	58	13	2	88	6	5
Telephone .. ..	22	3	1	20	3	7	20	16	6	26	12	4
Books and Newspapers	21	1	6	33	13	0	22	7	7	32	6	3
Audit and Accountancy												
Fees .. ..	15	15	0	15	15	0	15	15	0	15	15	0
Miscellaneous .. ..	74	1	10	122	9	8	119	16	11	194	16	7
	2716	0	2	2300	4	3	2469	1	3	2967	5	3
Maintenance :—												
Rent .. ..	150	0	0	150	0	0	150	0	0	150	0	0
Rates .. ..	68	15	11	71	0	7	76	17	10	79	2	6
Heating and Lighting	48	6	10	46	11	5	51	4	5	56	1	5
Insurances .. ..	5	10	3	5	12	8	5	18	1	6	3	8
Household Expenses ..	52	0	1	50	6	5	54	15	5	49	17	1
Furniture and Fittings	20	5	1	18	8	0	59	0	4	16	12	0
Repairs and Decorations	43	3	1	25	1	2	21	17	9	41	18	1
	388	1	3	367	0	3	419	13	10	399	14	9
Other Charges :—												
Allowance to late Clerk	25	0	0	25	0	0	25	0	0	25	0	0
Yearbook .. ..	568	11	1	619	3	9	611	7	3	639	16	1
Lease Redemption												
Premium .. ..	90	8	4	90	8	4	90	8	4	90	8	4
Congress Report ..	—			—			—			219	1	9
	683	19	5	734	12	1	726	15	7	974	6	2
Total	3788	0	10	3401	16	7	3615	10	0	£4341	6	2

\* In this statement the charges incurred during 1934-36 on account of the 1936 Congress have not been included.

## BALANCE

LIABILITIES	1933-34			1934-35			1935-36			1936-37		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Capital A/c .. ..	9199	10	10	10,199	10	10	10,302	17	1	10,302	17	1
Income and Expenditure A/c .. ..	527	6	3	415	19	6	443	3	7	491	19	11
Subscriptions carried forward .. ..	100	0	0	275	0	0	225	0	0	140	0	0
Sundry Creditors ..	—			107	11	4	31	15	2	—		
Carnegie Corporation Grant (Reserve)	—			—			—			222	6	5
	9826	17	1	10,998	1	8	11,002	15	10	£11,157	3	5

# COMPARATIVE STATEMENTS

## EXPENDITURE ACCOUNTS

INCOME	1933-34			1934-35			1935-36			1936-37		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Subscriptions of Member Institutions:—												
Great Britain and Ireland .. ..	2320	0	0	2370	0	0	2370	0	0	2405	0	0
Overseas .. ..	1099	1	4	1055	12	2	1080	0	0	1055	0	0
Sales of Yearbook:—												
Publishers .. ..	*208	16	9	*190	10	6	*222	15	9	*199	18	0
Bureau .. ..	40	7	11	49	11	4	50	14	10	46	18	2
Advertisements in Yearbook .. ..	69	18	0	74	12	4	78	3	0	76	12	4
Sales of Congress Reports, etc. .. ..	3	12	6	5	5	1	9	7	8	257	15	7
Cecil Peace Prize Contribution .. ..	10	0	0	10	0	0	10	0	0	10	0	0
Interest on Investments	420	0	0	412	4	8	378	7	8	316	0	8
Total	4171	16	6	4167	16	1	4199	8	11	£4367	4	9

\* For reasons explained in the Note on the Financial Statements in the 1933-34 Report, these amounts representing actual and probable Yearbook Receipts have not been included in the Income and Expenditure Accounts for 1933-34, 1934-35, 1935-36, and 1936-37 respectively, but are shown here for purposes of comparison.

## SHEETS

ASSETS	1933-34			1934-35			1935-36			1936-37		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Investments .. ..	6731	13	9	7731	13	9	6841	11	9	8379	5	6
Sundry Debtors .. ..	274	10	4	411	13	1	603	9	8	216	10	10
Cash at Bank .. ..	352	5	4	246	9	11	898	17	10	88	9	1
Petty Cash .. ..	0	10	7	4	7	0	5	12	2	5	0	11
Building at 88a Gower Street .. ..	†2467	17	1	†2467	17	1	†2467	17	1	†2467	17	1
	9826	17	1	10,862	0	10	10,817	8	6	£11,157	3	5
† Surrender value of Leasehold Redemption Policy .. ..	£359	16	0	£455	5	0	£553	10	0	£653	9	0



# UNIVERSITIES OF GREAT BRITAIN AND IRELAND

## HISTORICAL AND GENERAL SUMMARY

UNIVERSITIES were the outcome of the great intellectual revival which affected Europe in the twelfth and thirteenth centuries. Shortly after the Schools of Bologna and Paris had developed into what we now term Universities, similar seats of learning arose at Oxford and Cambridge, the nucleus of organization being, as at Paris, a corporation of masters—not, as at Bologna, a corporation of students—and many of the students being boys of fourteen or even younger. Instruction was in the form of lectures by licensed teachers. To the Seven Liberal Arts of the mediæval schools (the “trivium”—grammar, logic and rhetoric, and the “quadrivium”—arithmetic, geometry, music and astronomy) the Universities added the three higher “Faculties” of theology, law and medicine in order to provide complete preparation for the learned professions. The Scottish Universities, except Edinburgh, were founded in the fifteenth century, but the country had not been greatly influenced by the Revival of Learning, and although the earliest Reformers were in touch with continental scholars, and some attempts were made to introduce the New Learning into the schools and universities, the mediæval scholastic tradition remained paramount in St. Andrews and Glasgow until the seventeenth century. Aberdeen was more receptive to *renaissance* influences. The University of Edinburgh originated in a College established by the Town Council in 1583. Trinity College, Dublin, was founded by Queen Elizabeth in 1591 on the lines of the Oxford and Cambridge colleges.

After the Reformation a demand arose in England for education of a more secular type, but the Acts of Uniformity (1559 and 1662) and similar measures stereotyped the schools and universities as clerical and theological institutions, and by the latter half of the eighteenth century the teaching in the Universities had become mainly traditional and formal and they were rapidly losing their hold on the national life.

Readjustment to modern conditions took place in the course of the nineteenth century. Already in 1779 Protestant Dissenters, and in 1791 Roman Catholics, had been emancipated from the ban against their following the teaching profession. The few Denominational

tests retained by the older Universities were abolished in 1871. Oxford in 1800 established a system of written examinations for the bachelorship, and Cambridge, in 1824, the classical Tripos. Soon afterwards both Universities instituted non-classical Honour examinations. The University Commissioners of 1850 and 1877 made provision at Oxford and Cambridge for the endowment of the teaching of modern subjects and the throwing open of scholarships to students of such subjects removed practically all obligations to take orders in the Church of England and did much to make the Universities accessible to all classes of the community.

Pursuant to the recommendations made by the Royal Commission of 1919, important constitutional and other changes have been effected at Oxford and Cambridge by the Statutory Commissioners appointed in 1923. See the sections relating to these Universities.

Meanwhile the foundation in 1827 on a strictly undenominational basis of the "University of London," which obtained a charter in 1836 as University College, London, provided a teaching institution of University rank which was free from all restriction of tests and dared to include Chemistry and Engineering in its curriculum. The University of London received its charter at the same time and the University of Durham in 1837. In its original conception Durham followed closely the lines of Oxford. It was partly endowed out of the funds of the See and Chapter of Durham. The Colleges in which the other English Universities originated were founded as follows: Owens College, Manchester, 1851; Yorkshire College, Leeds, 1874; University College, Bristol, 1876; Firth College, Sheffield, 1879; Mason College, Birmingham, 1880; University College, Liverpool, 1881; the University Extension College, in conjunction with the Schools of Science and Art, Reading, in 1892. Created to minister to local needs and supported largely by local benefactions, they were naturally closely associated with local industries, and from the first laid stress upon the study of mathematical, scientific and modern subjects. Reading differs from the others in having been established in a town of comparatively small size (population less than 100,000), in the prominence given to work bearing on the agricultural and associated industries and in its policy of making residence in college or hostel the rule for its students. The Royal College of Science and the Royal School of Mines originated in a Technical School formed in 1851 in connexion with a Museum of Practical Geology. They, with the City and Guilds (Engineering) College, founded in 1881, became integral parts of the Imperial College of Science and Technology which was established in 1907 with the declared purpose of giving the highest specialized instruction and providing for research in the various branches of science, especially in its applications to industry.

A University of Wales was projected early in the fifteenth century, and the project was revived in Cromwell's time, but it did not materialize until 1893. The constituent colleges at Aberystwyth, Cardiff, Bangor, and Swansea were founded in 1872, 1883, 1884 and 1920 respectively. They are thoroughly indigenous to the Principality, much of the funds having been collected in very small sums from workpeople at the doors of churches and chapels. The Welsh National

School of Medicine at Cardiff was incorporated in the University in 1931.

The two modern Irish Universities both date from 1909. In 1850 a Royal Charter was granted to the recently established Queen's Colleges of Belfast, Cork, and Galway, constituting them a Federal University, which was absorbed in 1880 in the Royal University. University College, Dublin, representing the Catholic University established by the Irish Bishops in 1854, became with the Cork and Galway Colleges in 1909 constituents of the National University of Ireland, while Queen's College, Belfast, became the Queen's University of Belfast.

A characteristic of British Universities, as compared with those of the Continent of Europe, has from the earliest days been the provision of colleges or halls of residence, in which students live as members of a community, with the privileges of social intercourse and subject to the mutual influence which corporate life exerts.

Women were first admitted to Degrees by the University of London in 1878. Bedford College had already been founded in 1849; the three other colleges for women in connexion with the University of London were founded, Westfield in 1882, Holloway in 1886 and King's in 1902. The last was merged in King's College, London, in 1885. King's College of Household and Social Science was founded in 1908 as a department of King's College for Women, and became a separate "School" of London University in 1928. At Oxford, Lady Margaret Hall was opened in 1878, Somerville in 1879, St. Hugh's in 1886 and St. Hilda's in 1893. Of the Cambridge colleges, Girton originated at Hitchin in 1869 and was removed to the near neighbourhood of Cambridge in 1873. Newnham was founded in 1880. Cambridge admitted women informally to Tripos examinations in 1872 and to the titles of degrees in 1923; in 1926 women were declared eligible to university teaching posts and therefore to membership of boards of faculties. Oxford admitted them to examinations in 1884, to degrees and full membership in 1920 and to university teaching posts in 1927. Women have been admitted to the Universities of Scotland since 1892, Durham since 1896, Dublin since 1904 and to all the modern Universities from their foundation.

Unlike those of most other countries, the Universities of the United Kingdom have been, since their origin, independent of State control, although for many years they have been in receipt of State aid.

Up to the year 1913-14 the Board of Education presented to His Majesty the King in Council a Report supplying information in regard to University institutions in England and Wales which were in receipt of grants from the Board. This publication was discontinued during the war. In July, 1919, the Chancellor of the Exchequer appointed a Standing Committee "to enquire into the financial needs of University Education in the United Kingdom and to advise the Government as to the application of any grants that may be made by Parliament towards meeting them." The creation of this Committee furnished a suitable opportunity for the introduction of a uniform system for presenting the chief facts and figures relating to the Universities and Colleges of the whole country, and on its constitution as the University Grants

Committee (22A Queen Anne's Gate, S.W.1) in July 1919 an amount of £786,500 was made available for distribution to Universities and University Colleges in the year 1919-20. Since that date there have been periodic increases in the amount of the grant which "subject to the overriding necessities of national finance," now stands at £2,100,000 for the period ending July 31, 1941. A reserve of £150,000 was provided in 1936-37 for non-recurrent grants.

In the year 1935-36 grants were paid by the Board of Education to the University training departments under the Board's Regulations for the Training of Teachers, amounting to £309,035.

In the year 1935-36 Local Education Authorities provided £334,455 for aiding students at Universities (including members of Training Departments) and £72,960 for students in training colleges, and Local Authorities also made grants to Universities amounting to £492,187.

For information regarding scholarships, *see* p. 14.

The academic year is divided into three terms, which run from about October 1 to the middle of December; middle of January to end of March; middle of April to end of first week in July.

#### DEGREES CONFERRED BY THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND

The older Universities have developed out of the Universities of the Middle Ages under the compulsion of internal forces, with very little influence from outside. The historical continuity of their evolution and their individual independence account for certain customs and usages in which they differ one from another and from Universities in other lands. Their titles of degrees afford an illustration of this. A University of the Middle Ages was a Guild of learned men. Teaching was the craft of the Guild, whose fellowship carried with it the right to teach. An admitted aspirant for fellowship was termed a bachelor. The members of the Guild recognized his apprenticeship after submitting him to certain tests or, as we should term them, examinations. After gaining some experience in teaching, and successfully maintaining a thesis in public disputation, the bachelor attained to his degree. Admitted into the Guild, with its *jus ubique docendi*, he was known indifferently as doctor, master or professor. Still following this ancient usage, the degree in Scotland is the mastership, M.A. In Oxford, Cambridge and Dublin, where the examination for the bachelorship grew to be the determining test, the mastership, which carries with it all the privileges of membership of the Guild or Senate, follows without further examination after an interval of two or three years, but in no case less than six years from matriculation. For convenience in standardizing the attainments of their alumni, modern Universities have divided the degree into stages—usually described as the "first" and the "higher" degrees—Bachelorship, Mastership and Doctorate. The conferment of a first degree now marks the satisfactory completion of a three or four years' University course.

At Oxford and Cambridge the Faculty of Arts is not subdivided. B.A. is the "first degree," whether the course leading to it be literary

or scientific. At Oxford the B.Litt. and B.Sc. are awarded for special study and research, like the M.Litt. and M.Sc. of Cambridge. At Cambridge there is no B.Sc. At St. Andrews the B.Phil. or the B.Litt. may be taken either conjointly with, or after, the M.A. In Trinity College, Dublin, a B.Sc. course, including no classical language, was introduced in 1926, but it is expected that most Science students will continue to take the B.A., which remains the primary degree, and must be obtained before proceeding to any other degree except Mus.B., Mus.D., B.Sc. and Ph.D.

At all other Universities a course in Arts leads to the B.A. (in Scotland, M.A.), in Science to the B.Sc. and similarly to other titles in other departments of knowledge.

Each of the Faculties of Theology, Law, Medicine and Music has its own bachelor's degree (*v. infra*).

The first degree may be obtained in most Faculties either as an ordinary degree or with Honours.

In addition, at all Universities Diplomas and Certificates are granted in a variety of subjects (*see* the several Universities).

The signatures of the titles of the Degrees conferred in the various Faculties are set forth below—the more usual signature being placed first. Fuller details will be found under the several Universities and in the Introductory Chapter relating to the Scottish Universities.

### Faculty of Arts and Cognate Subjects

#### First Degrees

*Bachelor of Arts.* B.A. (all Universities except Scottish).

*Master of Arts.* M.A. (Scottish Universities only).

*Administration.* B.A. (Admin.) Manchester.

*Architecture.* B.A. (Arch.) London; B.A. (Hons. in Architecture) Manchester, Sheffield; B.Arch., Durham, Liverpool, Wales, N.U.I.

*Commerce.* B.Com., B.Comm. (Dublin, N.U.I.); B.Com.Sc. Belfast; B.A.Com. Bristol, Manchester.

*Literature.* B.Litt. St. Andrews. (With or after M.A.)

*Philosophy.* B.Phil. St. Andrews. (With or after M.A.)

### Faculty of Science and Cognate Subjects

#### First Degrees

*Bachelor of Science.* B.Sc.

*Agriculture.* B.Sc. (Agr.) Bristol, London, Reading, Aberdeen, Edinburgh, Glasgow; B.Agr. Belfast; Agr.B. Dublin; B.Agr.Sc. N.U.I.

*Applied Chemistry.* B.Sc. (App. Chem.).

*Applied Science.* B.Sc. (App. Sc.) (as distinguished from the B.Sc. in Pure Science). *See also* p. 343.

*Architecture.* B.Sc. (Arch.) Glasgow. *See also* Arts Degrees.

*Dairying.* B.Sc. (Dairying) Reading, N.U.I.

*Domestic Science.* B.Sc. (Dom. Sc.) Bristol.



*Economics.* B.Sc. (Econ.) London.

*Engineering.* B.A. Cambridge, Oxford; B.Sc., B.Sc.(Eng.), B.Eng. Liverpool, Sheffield; B.Sc.Tech. Manchester; B.A.I. Dublin; B.E. N.U.I.

*Estate Management.* B.Sc. (Est. Man.) London (External students only).

*Forestry.* B.Sc. (For.); Agr. (Forest.) B. Dublin.

*Horticulture.* B.Sc. (Hort.) London, Reading.

*Household and Social Science.* B.Sc. (H. & S. S.) London (Internal students only).

*Industrial Fermentation.* B.Sc. Birmingham; B.Sc.Tech. Manchester.

*Metallurgy.* B.Sc.; B.Eng. Liverpool; B.Sc.Tech. Manchester; B.Met. Sheffield.

*Mining Engineering.* B.Sc.; B.Eng. Sheffield; B.Sc.Tech. Manchester, Sheffield.

*Naval Architecture.* B.Sc.; B.Eng. Liverpool.

*Oil Engineering and Refining.* B.Sc. Birmingham, London.

*Technology.* B.Sc.Tech., Manchester, Sheffield; Sc.B. (Tech.) Dublin; B.Tech. Wales.

*Textile Technology.* B.Sc. (Textiles) Leeds; B.Sc.Tech. Manchester; B.Sc. (Text. Tech.) Belfast.

### General Honours Degrees in Arts

*Birmingham*—A General Honours Degree is conferred in three allied or grouped subjects in the Faculty of Arts.

*Leeds*—Candidates for the Degree of B.A. with General Honours attend approved courses and pass the prescribed examinations in (a) three subjects studied for three years, of which one subject, selected from fifteen, shall be taken at General Honours standard, (b) one other subject studied for one year.

*Liverpool* has abolished the distinction between the Ordinary Degree and the Degree with Honours. The Degree of B.A. is now conferred either as a degree in General Studies or as a degree in Special Studies in one of the Schools of the Faculty. Honours may be awarded in both General and Special Studies.

*Manchester*—Composite Honours Schools have been instituted, the first being a combination of Greek and English.

*Sheffield*—Honours are awarded in the General B.A. Examination.

### General Honours Degrees in Science

*Bristol*—An Honours Degree in General Science has been instituted with two main subjects and one subsidiary.

*Durham*—A General Honours Degree in Science has been instituted, courses being available at King's College, Newcastle-upon-Tyne.

*Leeds*—Candidates for the degree of B.Sc. with General Honours attend approved courses for at least 3 yrs. and pass examinations in two subjects at General Honours standard and in either (a) one other subject

at subsidiary (2 yr.) standard, or (b) two other subjects at introductory (1 yr.) standard.

*London*—Honours are awarded in the B.Sc. General Examination.

*Manchester*—An Honours Degree in General Science may be conferred in any one of the following *four* sections : (i.) Chemistry, Physics and Maths. ; (ii.) Botany, Zoology and Chemistry ; (iii.) Geology, Geography and Botany or Zoology ; (iv.) Maths. and Physics with Elem. Botany and Zoology.

*Sheffield*—Honours are awarded in the General B.Sc. Examination.

## Higher Degrees in the Faculties of Arts, Science and Cognate Subjects

### Bachelorships

**B.Litt., B.Sc.** Awarded at Oxford for special study and research. Students reading for the B.Sc. may change over in the middle of their course to the D.Phil. (*q.v.*), or *vice versa*.

**B.Litt.** Dublin. Obtained by Thesis. Candidates must have at least one year's standing as B.A.

**B.Ed.; Ed.B.** Scottish Universities. (Two years after a first degree.)

### Masterships

**M.A.** At Cambridge a Bachelor of Arts may, without further examination, proceed to the M.A. at the close of the 6th yr. after the end of his first term ; at Oxford in the twenty-first term after matriculation ; at Dublin 3 yrs. after passing the B.A. examination. At Durham graduates in Honours—1st or 2nd class—of 3 yrs.' standing are admitted to the M.A. without examination ; other graduates must pass the M.A. examination. At Sheffield the M.A. may be conferred on a B.A. of the University of not less than 1 yr.'s standing who has presented a thesis approved by the Faculty concerned, passed an oral examination and, if required by Faculty, a written examination in matters relevant to the subject of the thesis ; and on graduates of other Universities subject to specified conditions. Other Universities exact a further period of study from their own graduates, followed by the presentation of a thesis, or an examination, or both, of 1 yr. at Birmingham, Leeds, Belfast and the N.U.I. ; of 1 yr. from graduates with Honours, and 2 yrs. from others, at Bristol, Manchester and Wales ; of 2 years from all graduates at Liverpool, London and Reading. Graduates of approved Universities can obtain the Mastership after 1 yr. of advanced study and research at Birmingham and the N.U.I. ; after 2 yrs. at Bristol, Leeds, Liverpool, London, Manchester, Reading and Wales (thesis required). At London a thesis is required from Internal students in all branches, except Mathematics and Geography, in which it is optional, and an examination. At Leeds, Liverpool and Manchester persons who have not graduated can obtain the M.A. degree after a course of advanced study and research extending, usually, over 3 years.

**M.Sc.** This degree is not conferred by Oxford or any of the Scottish Universities. At Cambridge the degree is conferred upon students

admitted to a course of research extending over not less than 2 yrs. and after submission of a dissertation. At other Universities it can be obtained by graduates of the University under conditions similar to those for the M.A. At Durham, by graduates, B.Sc., of 2 yrs.' standing after examination or thesis. At Leeds, by graduates, B.Sc., with Honours, of 1 yr.'s standing (other Bachelors of any Faculty of 2 yrs.' standing), after research (thesis required). At Liverpool, by graduates, B.Sc., with Honours, after 1 yr.'s higher study (thesis required). At London, by Internal students of 1 yr.'s or 2 yrs.', by External students of 2 yrs.' standing from B.Sc. with thesis (optional in Mathematics and Geography) and examination. At Manchester, by graduates, B.Sc., of 1 yr.'s standing after thesis and examination (at the discretion of the Faculty). At Sheffield, by graduates, B.Sc., of the University of not less than 1 yr.'s standing who have presented a thesis approved by the Faculty concerned, passed an oral examination and, if required by Faculty, a written examination in matters relevant to the subject of the thesis; and on graduates of other Universities subject to specified conditions. The M.Sc. is also conferable upon a B.Sc. of the University of not less than 2 yrs.' standing who has presented a thesis approved by the Faculty and passed an examination. The M.Sc. Wales may be conferred on a graduate in Science of the University of Wales or of another approved University: 2 yrs. required from a Pass graduate, 1 from an Honours graduate. Graduates of other Universities must pursue a scheme of research in a constituent College of the University for not less than 2 yrs. A thesis is required from all candidates. In other Universities which confer the degree, graduates of approved Universities can obtain the M.Sc. on terms similar to those for the M.A.; at Durham or Reading, after 2 yrs.' advanced study in the University.

### Other Titles of Mastership conferred by various Universities

M.A. (Admin.) (Manchester); M.Agr. (Belfast); M.Agr.Sc. (N.U.I.); M.A. (Arch.) (London); M.Arch. (Liverpool, N.U.I.); M.A.I. (Dublin); M.Comm. (N.U.I.); M.Com. (Birmingham, Durham, Leeds, Liverpool, London); M.A. (Com.) (Manchester); M.Ed. (Durham, Leeds, Manchester); M.Econ.Sc. (N.U.I.); M.Eng. (Liverpool, Sheffield); M.Litt. (Cambridge, Durham); M.Met. (Sheffield); M.Sc. (Agriculture) (Reading); M.Sc. (Dairying) (Reading, N.U.I.); M.Sc. (Horticulture) (Reading); M.Sc.Tech. (Manchester, Sheffield).

### Doctorates

The Doctorate in Letters or in Science (Litt.D., D.Lit., D.Litt., Sc.D., D.Sc.) is conferred upon Masters of Arts or Science or Doctors of Philosophy (Wales and Dublin, also Bachelors) distinguished by their contributions to the advancement of learning or science. The claim to the degree must be based either upon a special thesis, as at London, or upon published works. In certain Universities the Faculty may require the applicant to appear for examination. An applicant for the Doctorate must be of the following standing: 3 yrs.' from graduation at Dublin, Belfast (for D.Sc.), N.U.I. (for D.Sc.Pub.Health). 4 yrs.' from graduation at Manchester and London (for D.Sc. and External D.Lit.). 5 yrs.' from

graduation at Birmingham (for D.Litt., D.Sc.) ; at Sheffield (for Litt.D., D.Sc., D.Eng., D.Sc.Tech., D.Met.) ; at N.U.I. (for D.Litt., D.Litt.Celt., D.Sc.) and at the Scottish Universities. 6 yrs.' from graduation at Durham (for D.Sc.) ; at Belfast (for D.Lit.) ; at Leeds (for Litt.D. and D.Sc.) ; at Bristol and Reading (4 yrs.' from M.A. or M.Sc., 3 yrs.' from Ph.D.). 7 yrs.' from graduation at Oxford (D.Litt.) ; at London (for Internal D.Lit.). 8 yrs.' from graduation at Cambridge (for Litt.D. and Sc.D.). 10 yrs.' from graduation at Durham (Litt.D.) ; at Wales (3 yrs.' from M.A. or M.Sc., 2 yrs.' from Ph.D.). For Litt.D., D.Sc. and D.Eng. at Liverpool, *see* p. 118.

Graduates of other Universities who have been admitted to the degree of M.A. or M.Sc. (Oxford M.A., B.Sc. or B.Litt. ; Dublin B.A.) can proceed to the Litt.D. or Sc.D. under the prescribed regulations. In Scotland Honours graduates of approved Universities of 5 yrs.' standing, who have spent the equivalent (4 terms) of two winter sessions in research at a Scottish University, have submitted a satisfactory thesis or published work and have, if required, passed an examination, are admitted to the Doctorate (*see* p. 343). At Bristol the degree of D.Sc. can be obtained without previous admission to the M.Sc. At London a candidate for the Doctorate may be specially exempted from the examination for M.A. or M.Sc. ; at Manchester, from the examination for M.Sc. At Wales, graduates of other Universities are not eligible to become candidates for the Degree of Doctor unless they have previously qualified for a degree of the University of Wales, *i.e.* Bachelor, or Master, or Ph.D. degree. For Doctorates in other Faculties *v. infra*.

### Degrees in the Faculty of Divinity

**B.D.** After examination in the Scottish Universities and the Universities of Durham, London, Manchester and Wales. After examination (waived in the case of graduates in Theological Studies) and submission of a thesis at Leeds ; graduates of other Universities being required to attend at Leeds courses for 2 yrs. After examination and submission of a thesis at Dublin. After examination and the submission of a dissertation and published works at Cambridge (examination may be omitted) and at Oxford. At London the course must extend over 3 yrs., subsequent to matriculation. In Scotland a candidate must be M.A. of a Scottish University who has taken a theological course in a specially recognized institution, or a graduate of an approved University who has taken a complete theological course of at least 2 yrs. in the University conferring the degree ; at Dublin, a B.A. of 3 yrs.' standing ; at Durham he must be either a graduate of 2 yrs.' standing or the holder of the Diploma in Theology ; in Wales, a graduate who, subsequent to graduation, has studied for 3 yrs. at one of the Associated Theological Colleges or Schools of Theology of the University ; at Cambridge, a candidate who is a graduate of the University of not less than five years' standing from admission to his first degree ; at Oxford, a candidate must be M.A. or must be 26 yrs. of age, have followed a course of study in Christian Theology extending over 6 terms and resided at the University during 6 terms. The B.D. may be taken with Hons. at some Universities.

**D.D.** In Scotland the degree is conferred *honoris causa tantum*. At

London it is conferred upon Bachelors of Divinity who took Honours in at least one subject, on presentation of a dissertation, followed by an examination if the examiners so desire. At other Universities it is conferred in consideration of published works or a dissertation (and, at Oxford, a *viva voce* examination, if the judges so desire). The requisite standing is, at Cambridge, 3 yrs. from B.D.; Dublin, 8 yrs. from B.A.; Durham, 10 yrs. from B.A.; Manchester, 4 yrs. from B.D. (or 6 yrs. for Bachelors of Divinity of other Universities who have studied for 2 yrs. at Manchester); Oxford, 14 yrs. from matriculation, or, if he was admitted to the degree of B.D. as a graduate of another University, the candidate must have attained the age of 33; Wales, 6 yrs. from B.D.

### Degrees in the Faculty of Law

**LL.B., B.C.L.** (Durham, Oxford), **B.L.** (Aberdeen, Edinburgh, Glasgow). At the English Universities (except Cambridge and Oxford), at Wales and Belfast the course for the LL.B. extends over 3 yrs. from matriculation (with honours, 4 yrs. in some cases). At Cambridge students who have obtained Honours in Part I. or II. of the Law Tripos are admitted to the LL.B. examination not earlier than the end of their fourth year and other approved students are also admitted subject to regulations regarding residence and study. At Aberdeen, Edinburgh and Glasgow candidates must be graduates of approved Universities and pursue a course of study for 3 yrs. At Dublin they must be graduates of Dublin, Cambridge or Oxford and pass two examinations in Law. At N.U.I. they must pursue an approved course of study for at least 2 yrs. subsequent to obtaining the Degree of Bachelor of Arts of the University.

**B.C.L.** At Durham candidates must be Bachelors of Arts of the University of 2 yrs.' standing. At Oxford they must be graduates and keep residence for 6 terms (Bachelors of Arts of the University, 12 terms from matriculation).

**B.L.** Candidates must pass the Preliminary or an equivalent examination and pursue an approved course of study for 3 yrs.

**LL.M.** Bristol, Cambridge, Durham, Leeds, Liverpool, London, Manchester, Sheffield, Wales. By standing for graduates in Law with Honours, except at Durham, Leeds, Manchester and Sheffield, where a dissertation must be presented. For others, after examination, or dissertation must be presented. For others, after examination, or dissertation (Cambridge) or both (Wales). Liverpool requires 2 yrs. of approved study after Hons. LL.B.; other candidates 2 or 3 yrs.' study with dissertation and/or examination.

**LL.D. or D.C.L.** (Oxford, Durham). By the Scottish Universities the Doctorate is awarded only *honoris causa tantum*. Other Universities, unless the degree be awarded *honoris causa*, require the submission of a thesis, dissertation or published works, and may require attendance at an examination; in Dublin a candidate may elect to undergo examination in lieu of offering a thesis, etc. The requisite standing for the Doctorate is, at London, any time after the LL.M. or Ph.D.; Belfast, 3 yrs. from LL.B. if thesis; Dublin, 3 yrs. from B.A. of Dublin, Oxford or Cam-

bridge; Manchester and Sheffield, 4 yrs. from LL.B.; N.U.I., 5 yrs. from LL.B.; Oxford (D.C.L.), 5 yrs. from B.C.L.; Cambridge, 8 yrs. from first degree; Bristol, 4 yrs. from LL.M.; Liverpool, 5 yrs. from LL.M.; Leeds, 6 yrs. from LL.B.; Durham (D.C.L.), 10 yrs. from B.A.; Wales, 10 yrs. from graduation or 3 yrs. from LL.M. or 2 yrs. from Ph.D.

### Degrees in the Faculties of Medicine and Surgery and Cognate Subjects

**M.B., B.M.** (Oxford), **Ch.B., B.Chir.** (Cambridge), **B.Ch.** (Oxford, Wales, Belfast, Dublin, N.U.I.), **B.S.** (Durham, London). (Obtainable as an ordinary degree or with Hons.) The regulations for these degrees are practically uniform. Preliminary examinations must satisfy the requirements of the General Medical Council (*see* Appendix IV. 11). Registration as a medical student by the G.M.C. is recommended. Satisfactory attendance is required during at least 5 yrs. at courses of study and hospital practice. Four examinations (in some Universities grouped as three or two) must be passed. All examinations must be passed at the University granting the degree, with the exception of the first, in Chemistry, Physics, and Biology (and, at St. Andrews, the second in Anatomy and Physiology), from which a candidate may be exempted if he has passed an equivalent examination at the University, or elsewhere (Scottish Universities, Birmingham, Bristol, Dublin for S. African students only, Durham, London, Oxford Senior Students, Sheffield). Study in the University for at least 3 yrs. is required, except for External degrees of the University of London where candidates must study for 4½ yrs. (after the First Professional Examination), at a recognized Medical School, 1 yr. being spent in the United Kingdom; for 2 yrs., Scottish Universities, Leeds, Manchester. The Universities of Oxford and Cambridge exact 3 yrs.' residence, but allow students to do any or all of their medical work at other recognized medical schools. At Oxford, Dublin, Wales, candidates must graduate B.A. (or B.Sc., Wales) before admission to a medical degree. The B.A.O. and the M.A.O. (Obstetrics) are conferred by Belfast, Dublin and N.U.I.

**M.D. or D.M.** (Oxford). Candidates must be Bachelors of Medicine and Surgery of the University of, ordinarily, 2 yrs.' standing (Birmingham, Manchester and Scottish Universities, 1 yr.'s standing; Sheffield, 3 yrs.'; Belfast, 3 yrs.' or 2 yrs. from B.A. or B.Sc. with M.B.; Dublin of M.A. standing; Cambridge, 8 yrs. from admission to first degree; Oxford, 10 yrs. from matriculation). A dissertation is compulsory at most Universities followed by an examination, unless the examiners pronounce the dissertation to be of such merit as to render further examination unnecessary. At Birmingham graduates in medicine of other approved Universities may present themselves for the M.D. after two years of approved study. This University also grants an M.D. in State Medicine; candidates must hold the D.P.H. of a British University.

**Ch.M., M.Ch., M.S.** (London and Durham), **M.Chir.** (Cambridge). Regulations somewhat similar to those for M.D. The **M.Ch.(Orth.)** is

granted by Liverpool; candidates must be graduates of an approved University. Attendance and study at Liverpool during 15 mths. before examination is required. In addition to the M.S. Durham grants a **D.Ch.** open to candidates who subsequent to having obtained a registrable qualification have devoted 3 yrs. (including at least one in the University) to the study of surgery and ancillary subjects.

Degrees in Dentistry—**B.D.S.**, **B.Ch.D.** (Leeds), **B.Dent.Sc.** (Dublin)—are granted by all Universities except Cambridge, Oxford, Reading, Wales, Aberdeen, Edinburgh and Glasgow (period of study generally about 5 yrs.). Diplomas in Dental Surgery—**L.D.S.**—are awarded by the Universities of Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield, St. Andrews and Belfast (period of study generally 4 yrs.). The degree of Master of Dental Surgery—**M.D.S.**, **M.Ch.D.** (Leeds), **M.Dent.Sc.** (Dublin)—is awarded by all Universities granting a first degree, except London. Candidates must generally be Bachelors of Dental Surgery of 1 to 3 yrs.' standing and must present a thesis and/or undergo an examination. At Leeds, in addition to having been admitted to the degree of Bachelor of Surgery at least 1 yr. previously, candidates must also have obtained a registrable medical qualification. The University of London awards the degree of M.S. in Dental Surgery. In order to be admitted to the examination candidates must first have obtained the degrees of Bachelor of Medicine and Surgery.

Degrees in Pharmacy are conferred by London and Wales (**B.Pharm.**), by Manchester and Glasgow (**B.Sc.** in Pharmacy) and by Belfast (**B.Sc.** in Pharmaceutics). The course extends over 3 yrs. except at Glasgow where it extends over 4 yrs. and leads to an Honours degree.

Degrees in Public Health are conferred by Durham (**B.Hy.** and **D.Hy.**) and by Glasgow and N.U.I. (**B.Sc.** and **D.Sc.** in Public Health). Candidates for the Bachelor's degrees must be graduates in medicine of 2 yrs.' standing; the D.Hy. and D.Sc. (N.U.I.) are conferred 2 yrs. after the Bachelor's degree and the D.Sc. (Glasgow) 5 yrs. after the Bachelor's degree.

Degrees in Veterinary Science are awarded by Liverpool (**B.V.Sc.**, **M.V.Sc.** after 2 yrs.' further study and **D.V.Sc.** 3 yrs. after M.V.Sc. for published contributions to science), London (**B.Sc.** in Veterinary Science, M.Sc. 1 or 2 yrs. later by examination and **D.Sc.** open to Masters for original contributions to advancement of science) and Edinburgh (**B.Sc.** in Veterinary Science and **D.Sc.** 3 yrs. later by thesis).

### Degrees in the Faculty of Music

**Mus.B.**, **B.Mus.**, **Mus.Bac.** At Birmingham, Cambridge, London, Manchester, Wales, Edinburgh, Glasgow, Dublin, and N.U.I. students must pass the same Entrance examination (Matriculation, Previous, or Preliminary) as students in Arts; with, at Birmingham, where the degree is an Honours degree, an examination in theory and in execution. At Durham they are admitted on a *testamur* as Students of Music. At Oxford they must pass Responsions. At Sheffield they must pass the Intermediate Examination for the B.A. degree. In Wales they must

attend an intermediate class in Arts or Science in addition to the Music course. Residence is not obligatory at London, Dublin or Durham. At Edinburgh students must study Music in the University for one whole winter session. As a rule, the course extends over 3 yrs. with two, or three, examinations, including an exercise for the Final examination. Honours in this degree are obtainable at Birmingham, Manchester, Edinburgh, Glasgow and Wales.

**Mus.M., M.Mus.** At Cambridge and Wales conferred on Bachelors of Music (and Bachelors of Arts with Honours in Music at Wales) of the University of ordinarily 2 yrs.' standing after examination and submission of an exercise; at Birmingham on Bachelors of Music of Birmingham and other approved Universities after 1 yr. of approved study or research, examination and submission of 3 original compositions or thesis.

**Mus.D., D.Mus., Mus.Doc.** Conferred at Cambridge on graduates not less than 30 yrs. of age, in recognition of distinction as Composer; in Wales (D.Mus.) on B.Mus. of 10 yrs.' or M.Mus. of 3 yrs.' standing on consideration of original compositions; at Edinburgh on Mus.Bac.'s of 3 yrs.' standing and at Glasgow of 5 yrs.' standing, after examination as Composer, Executant or Theorist or Historian (Dissertation), and also *honoris causa tantum*; at Dublin on Mus.B.'s after further examination or practical test; at London on Mus.B.'s of 2 yrs.' standing, Oxford 3 yrs.', Manchester 4 yrs.', Durham, Sheffield and N.U.I. (all D.Mus.) 5 yrs.', after exercise and examination.

### Doctor of Philosophy

In May 1917 representatives of the Universities and University Colleges met in Conference to devise measures for the further encouragement of Post-graduate Study and Research. It was resolved that it was desirable that a degree should be instituted carrying the title of Doctor (Ph.D., D.Phil. Oxford), obtainable by graduates of British and foreign Universities after a course of advanced study and research. The conditions and regulations for such a degree were further considered at adjourned meetings held on May 10, 1918, Jan. 24, 1919, and March 14, 1919. All the Universities of the United Kingdom now confer the degree of Philosophiæ Doctor. Candidates entering upon a course of advanced study and research for the Ph.D. must be at least 21 (Oxford, Cambridge, Bristol, Liverpool, Durham, Wales, Reading, St. Andrews, Dublin—no minimum age); must ordinarily be graduates either of the University or of some other approved University; must have pursued their studies at a University or Universities for a period of at least 3 yrs. (Durham—2); must produce evidence of fitness for the proposed course of study and research. The course for the degree is 2 yrs.; at Cambridge, Liverpool, Reading, Aberdeen, Glasgow, St. Andrews and N.U.I., 3 yrs. which may under certain conditions be reduced to 2 yrs. Candidates on completion of research must present thesis and submit to oral examination on thesis. The degree is granted in any faculty in which the University is prepared to receive advanced students.



A candidate for the degree of Ph.D., as an External student of the University of London, must have graduated in the Faculty of Theology, Arts, Laws, Music, Science, Engineering, or Economics in this University not less than 2 academic yrs. previously.

#### LAMBETH DEGREES

Under the Peter Pence Act (25 Henry VIII. Chapter 21) the Archbishop of Canterbury has power to grant degrees which previous to the Reformation were obtained from Rome. The degrees generally conferred are those of D.D., Mus.Doc. and B.D.

#### STUDENTS

The number of full-time students in Universities and University Colleges in receipt of Treasury Grant is given in the Returns published by the University Grants Committee for the year 1935-36 as 50,529, including 11,879 women. To these must be added the students of the Irish Universities and of certain schools of the University of London not included in the Returns of the University Grants Committee, making a total of about 58,000. These statistics do not include the students of the institutions, other than Universities and University Colleges, in which professional education of university grade is given in Theology, Teaching, Agriculture, Mining, etc.; nor students reading privately for the external degrees of the University of London, for the Bar, etc. This makes comparison with statistics of other countries difficult, as does also the fact that the work of the higher forms of many of our secondary and public schools corresponds with the earlier stages of the work done in Colleges and collegiate departments of some foreign Universities, *e.g.* in America.

For information regarding admission as an undergraduate from home and abroad and school examinations, *see* Appendix I. For recognition of study at other Universities—(a) as undergraduates, *see* Appendix I.; (b) as graduates, *see under* the several Universities and Appendix I. For fees and other charges, *see under* the several Universities. For student organizations, *see* Appendix VI.

#### SCHOLARSHIPS

Few countries offer a richer variety than Great Britain of facilities for access to the highest forms of education. The lead of the "pious founder" has been followed by city companies and professional bodies, and, since the Education Act of 1902 brought higher education within the purview of Local Authorities, by the State. The response to the principle which found expression in the words of Mr. Fisher's Education Act of 1918 that "children and young persons should not be debarred by inability to pay fees from receiving the benefits of any form of education by which they are capable of profiting" has been so remarkable that L.E.A.'s are now assisting more students to take courses at Universities than they were helping to obtain Secondary education before the Act of 1902 was passed. From the grant-aided Secondary

Schools of the country alone, with their 481,767 pupils (on Oct. 1, 1936), 226,058 of whom were free pupils, a fairly steady stream of students, averaging some 4000 over the last four years, more than 67 per cent. of whom were previously educated in Public Elementary Schools, passes each year to the Universities and University Teachers' Training Departments. The number of scholarships available and their variety, as regards conditions of tenure, put any attempt to give a comprehensive list out of the question. Those in search of assistance should apply for their Local Education Authority's Scholarship Handbook.\* The main agencies in England and Wales by which scholars are assisted to attend Universities may be classified in the order of the probable number of awards made and the annual expenditure incurred : (i.) *Local Education Authorities*. The majority of awards are given to candidates who have done good work in College Scholarship and the Higher School Certificate Examinations, though some Authorities hold examinations of their own or grant assistance upon a consideration of school records. The expenditure of L.E.A.'s for 1936-37 in aid to students at Universities was £334,000 (approx.). (ii.) "*Open*" *Scholarships awarded by the Universities or their individual Colleges*. A brief notice of scholarships open to graduates will be found in the general information regarding each University. No particulars are readily available to show the total number of entrance scholarships and exhibitions awarded annually. About 700 awards are made each year by Oxford and Cambridge. (iii.) *State Scholarships*. About 360 are now awarded annually by the Board of Education to boys and girls in full-time attendance at Secondary Schools, on the recommendation of the Bodies that conduct the Higher Certificate Examinations. The scholarships are tenable by students reading for an Honours degree. Analyses of these awards and the courses and degrees taken will be found in the statistical information published annually by the Board of Education. The expenditure upon State scholarships during the financial year ended March 31, 1937, was £124,924. (iv.) *Leaving Scholarships and Exhibitions awarded by Endowed Schools*. The expenditure upon such awards in the year 1935-36 was £47,769 incurred by 214 of the 479 Endowed Schools on the grant list of the Board. To these must be added over 100 of the 397 Schools recognized as efficient by the Board, but not on the grant list, for which figures are not readily available. (v.) *Charities unattached to Schools, but with power to offer Exhibitions under their Instruments of Government*. The number of educational charities in the country is extremely large. Information in regard to scholarships available in any particular area can usually be obtained by application to the L.E.A. Some of the larger funds open to the whole country are indicated in App. II. Further particulars will be found in the Annual Charities Register and Digest. It should be understood that assistance is often accorded from complementary sources. The holder of a Major Scholarship of a L.E.A. may, for

\* Some of the Scholarship Handbooks, e.g. that published by the London County Council (P. S. King & Son, Ltd., 14 Gt. Smith St., Westminster, S.W.1, price 3d.) include a great deal of information in regard to general sources of assistance open to the whole country as well as that available for persons resident in a particular area.

instance, also hold a State Scholarship or College award, or possibly (with an upward limit of the total amount) all three.

In Ireland conditions are similar. For Scholarships in Scotland, *see* PP. 344-5.

#### ADULT EDUCATION

*University Extension* Courses have been promoted by the Universities of Cambridge, Oxford and London for the last 60 years. At Cambridge they were known as local lectures and were initiated in 1873. Oxford and London took up the work soon afterwards, and since then the other Universities and University Colleges have followed suit. These courses number several hundreds and vary in length from 6 to 25 lectures. In 1926 the Universities Extra-mural Consultative Committee was established to consider, especially from the point of view of administration, the many aspects of extra-mural work now undertaken by the Universities, and to contribute towards the formation of a common policy. Each University and independent University College of England and Wales is represented by one member, generally the chief executive officer of the Extra-mural Department, and certain persons are co-opted. An Annual Report is printed giving a tabular statement of University Extension Courses and other activities of University Extra-mural Departments.

In 1903 *The Workers' Educational Association* was founded. In 1907 relations were established with Oxford University. Since that date relations have been established with all the Universities and University Colleges, and there are joint committees composed of representatives of the University or College and the W.E.A., which promote Preparatory Classes, Three-Year Tutorial Classes, Advanced Tutorial Classes, Vacation Courses, etc. Most of these classes and courses are recognized by the Board of Education for purposes of grant under Chapter II. of the Adult Education Regulations.

The *Adult Education Committee* was appointed by the President of the Board of Education, in April 1921, to promote the development of liberal education for adults, and in particular to bring together national organizations concerned with the provision of adult education, so as to secure mutual help and prevent overlapping and waste of effort; to further the establishment of local voluntary organizations for the purpose and of arrangements for co-operation with Local Education Authorities; and to advise the Board of Education upon any matters which the Board might refer to the Committee. It has been reappointed by successive Presidents. It includes representatives of all Universities in England and Wales, and of the principal voluntary organizations engaged in the work of Adult Education; also four representatives of Local Education Authorities. Assessors are appointed by the Board of Education, the Admiralty, the Army Council and the Air Ministry. Since 1921 the Committee has been engaged on many inquiries, and their Reports have been published by H.M. Stationery Office, Adastral House, Kingsway, London, W.C.2. The more recent are: No. 6—*The Drama in Adult Education*. (1s.) No. 7—*Full-time Studies*. (6d.) No. 8—*Natural Science in Adult Education*. (6d.) No. 9—*Pioneer Work and*

other Developments in Adult Education. (6d.) No. 10—The Scope and Practice of Adult Education. (1s. 6d.) No. 11—Adult Education and the Local Education Authority. (2s. 6d.)

The *British Institute of Adult Education*, 29 Tavistock Square, London, W.C.1, is a central co-ordinating body on adult education. Its work includes research into problems connected with the movement and investigation of new methods of progress. The Institute arranges an Annual Conference at which are represented : Local Education Authorities, Universities, Voluntary Associations and the Board of Education.

Publications. *Adult Education*—a quarterly review of adult education in England (issued Sept., Dec., March and June, 4s. 6d. p.a. post free). *Life and Leisure Pamphlets*, 6d. each, still available: 2. The Sociological Background of Adult Education in Rural Districts. 3. London Men and Women. 4. Imagination and Thinking. 5. What is a Painting. 7. Education for an Age of Plenty.

#### COMMITTEE OF VICE-CHANCELLORS AND PRINCIPALS

In May 1918 Mr. Balfour summoned at the Foreign Office a Conference of representatives of all the Universities for the purpose of putting before them a proposal that on the invitation of the Government of the United States a Universities' Mission should be sent to America. At this meeting Mr. Balfour took the opportunity of pressing upon the Universities the desirability of establishing a representative body to which matters of interest to the Universities might be referred by Government Departments. He urged the necessity of the creation of "an organ of expression" which would voice the desires and aspirations of the British Universities and represent them in their relations with the Universities of other nations. At a subsequent meeting the Conference resolved that "it is desirable in the interests of the Universities and of the nation that steps be taken to promote co-operation and mutual consultation among the Universities of Great Britain and Ireland, and, further, that the Vice-Chancellor or Principal of each University or a deputy appointed by him, together with the Executive Committee of the Universities Bureau, be appointed a 'Standing Committee' to consider any matters of common interest arising out of the proceedings of this Conference or submitted to it by the Government, and to report from time to time to the Conference."

The Standing Committee of Vice-Chancellors dealt with a number of subjects of common interest to the Universities, which are mentioned in previous issues of the *Yearbook*.

In 1929 the Standing Committee of Vice-Chancellors was dissolved and a Consultative Committee of Vice-Chancellors and Principals was established in its place, the members of which are appointed by the several Universities and by one of the three University Colleges in rotation. The deliberations of this Committee now cover all subjects of common interest to Universities ; in consequence, University Conferences, which had been held annually up to and including 1929, have been discontinued.

Amongst subjects discussed during the year 1936-37 by the Committee were Regulations of the General Medical Council for the First

M.B. Examination ; Period of Study for the Ph.D. Degree in Overseas Universities ; International University Sanatorium at Leysin ; Jane Eliza Proctor Visiting Fellowships ; Memorandum on the Suitability of South African Students for Admission to Universities in this Country ; Exchanges of Students ; International Conference in Paris on Higher Education ; The Universities and Physical Instruction ; Age of Selection for Teachers' Training Grants ; Universities China Committee : Professorships and Readerships in Chinese ; Admission of Chinese Students to Universities in this Country ; Celebration of the Centenary of the University of Athens ; Celebration of the Bicentenary of the University of Göttingen ; Panel of Advisers in London to give Information regarding Facilities for Postgraduate Work ; Proposed Investigation into the Higher School Certificate Examination ; Draft Unemployment Insurance Regulations ; Gift of Books to British Universities by the French Government.

The Universities Bureau acts as the Secretariat of the Committee of Vice-Chancellors and Principals.

#### PARLIAMENTARY REPRESENTATIVES OF UNIVERSITIES

Oxford	. . . . .	A. P. Herbert, M.A. ; Sir J. Arthur Salter, K.C.B., M.A., D.C.L., LL.D., Com. Lég. d'H.
Cambridge	. . . . .	Sir J. J. Withers, C.B.E., M.A., LL.D. ; K. W. M. Pickthorn, M.A., Litt.D.
London	. . . . .	Sir Ernest G. G. Graham-Little, B.A., M.D., F.R.C.P.
Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield, Reading	. . . . .	} Miss Eleanor Rathbone, M.A., LL.D. ; T. Edmund Harvey, M.A.
Wales	. . . . .	
Scottish Universities	. . . . .	Ernest Evans, B.A., LL.B.
		G.A. Morrison, M.A., LL.D. ; J. Graham Kerr, M.A., LL.D., F.R.S. ; Rt. Hon. Sir John Anderson, G.C.B., G.C.S.I., G.C.I.E., M.A., B.Sc., LL.D.
Belfast	. . . . .	In the Parliament of the United Kingdom—Col. T. Sinclair, C.B., M.D., F.R.C.S.
		In the Parliament of Northern Ireland—Rev. Prof. R. Corkey, M.A., Ph.D. ; Sir R. J. Johnstone, B.A., M.B., B.Ch., B.A.O., F.R.C.S. ; J. C. McDermott, K.C. ; Lt.-Col. A. B. Mitchell, O.B.E., M.B., B.Ch., B.A.O., F.R.C.S.I., D.L.

# UNIVERSITY OF BIRMINGHAM

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VICE-CHANCELLOR AND PRINCIPAL—SIR CHARLES GRANT ROBERTSON, C.V.O., M.A. Ox., Litt.D. Sheff., LL.D. Edin., Glas. and Bristol (to 30.9.38). R. E. PRIESTLEY, M.C., M.A. Camb., D.Sc. Melb., Agr. Dip. Camb. (from 1.10.38).

VICE-PRINCIPAL—Prof. J. G. SMITH, M.A. Dub., M.Com.

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Secretary—Birmingham, Central 8541-4.

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*Accounting and Administration*  
Cousins, D., B.Com., A.C.A.

Reader.

### *Anatomy*

Lockhart, R. D., M.B., Ch.M.  
Aberd., M.D. Prof.

Lectr. and Demr. :

Smout, C. F. V., M.B., Ch.B.,

L.R.C.P., M.R.C.S.

Brandt, W., M.D. Würzburg.

Lectr.

Lectrs. in Applied Anat. :

Rose, Baron T., B.Sc., M.B.,

Ch.M., F.R.C.S. Eng. and

Edin.

Brenner, O., M.D., M.R.C.P.

Connell, J. S. M., L.R.F.P.S.

Glas., F.R.C.S.Ed.

Brailsford, J. F., M.D., M.R.C.P.,  
M.R.C.S.

(Living A.) Radiol. Demr.

### *Art (Fine Arts)*

Bodkin, T., D.Litt. N.U.I., Litt.D.

Dub., M.R.I.A., Chev. Lég.

d'H.

Barber Prof.

### *Bio-Chemistry*, v. Physiol.

### *Botany*

Stiles, W., M.A., Sc.D. Camb.,  
M.Sc., F.R.S. Mason Prof.

Chesters, C. G. C., B.Sc. Glas.,

M.Sc., Ph.D.

Lectr.

Rees, W. J., B.Sc., Ph.D. Lectr.

Skelding, A. D., B.Sc. Lond.

Asst. Lectr.

*Brewing, etc.*, v. Malting and  
Brewing

*Chemistry*

Haworth, W. N., D.Sc. Manc.,  
Ph.D. Gött., M.Sc., F.R.S.  
Mason Prof.  
Carter, S. R., D.Sc., F.I.C.  
(Physical C.) Snr. Lectr.  
Johnson, C. H., B.Sc., Ph.D.  
Lond. Snr. Lectr.

Lectrs. :

Wood, C. E., M.Sc., A.I.C.  
Nicholas, S. D., B.A. Ox., A.I.C.  
Pinkard, F. W., M.Sc. Wales, A.I.C.  
Hickinbottom, W. J., D.Sc., Ph.D.,  
A.I.C.  
Cox, E. Gordon, D.Sc. Bristol,  
F.Inst.P.  
Porter, C. R., Ph.D. Lond.  
Peat, S., B.Sc. Durh., Ph.D.  
Stacey, M., B.Sc., Ph.D., A.I.C.  
Smith, F., B.Sc., Ph.D.  
Asst. Lectr.

*Classics*

Thomson, J. Oliver, O.B.E., M.A.  
Birm. and Aberd., B.A. Camb.  
(Latin) Prof.  
Thomson, G., M.A. Birm. and  
Camb. (Greek) Prof.  
Hirst, Margaret E., M.A. Birm.  
and Camb. Lectr.  
Austin, R. P., B.A. Lond. and  
Reading, B.Litt. Ox. Lectr.  
Bactin, N., Ph.D. Camb.  
Asst. Lectr.

*Commerce*, v. also Acc., Fin.

Florence, P. Sargant, M.A. Camb.,  
Ph.D. Columb., M.Com. Prof.

*Commercial Law* [Prof.

Goitein, H., LL.D. Lond., M.Com.

*Dentistry*, v. *infra*

*Education*

Valentine, C. W., M.A. Birm. and  
Camb., D.Phil. St. And.  
Prof.

Braddock, A. P., M.A., B.Sc.  
Lond., Hd. of Men's Divn.  
Hammond, Marjorie, M.A. Camb.,  
Hd. of Women's Divn.

Lectrs. :

Chapman, A. E., M.A. Camb.  
Austin, Frances M., M.Sc.  
Buchanan, Freda M., M.A. Edin.  
Simpson, Lilian E., B.A.  
Cull, E. C., B.Sc. Lond.  
Haddelsey, Muriel E., Bergman  
Osterberg Phy. Tg. Coll.  
MacFarlane, Nancy A., M.A. Ox.  
James, B. C. L., M.A. Ox.  
Sturt, Mary, M.A. Ox., Ph.D.  
Tait, Elizabeth W., M.A. Edin.  
David, Ethel, M.A. Camb.  
Thorburn, A., M.A. Edin.  
Cox, Christabel.  
Weitzman, Sophia, M.A., Ph.D.  
Manc.  
Hookins, Doris I., B.Sc. Liv.  
Asst. Lectr.  
Pearson, Nina, B.Mus.  
Asst. Lectr.

Medical Officers :

Jordan, W. R., M.D.  
Braid, Frances, M.D. St. And.,  
M.R.C.P.

*Engineering, Civil*

Batho, C., B.Eng. Liv., D.Sc.  
McGill, M.Sc., M.I.C.E.,  
M.I.Struc.E. Beale Prof.  
Panton, R. C., M.A., M.A.I. Dub.,  
M.Sc., M.I. Struct. E.  
Pt.-time Lectr.

Veal, T. H. P., B.Sc. Brist. Lectr.  
Coults, H. W., B.Sc. Leeds,  
M.Sc. Lectr.  
Bateman, E. H., M.A. Camb.,  
B.Sc.Eng. Lond. Lectr.  
Haywood, W., F.R.I.B.A. (Town  
Planning) Lectr.

*Engineering, Electrical*

Cramp, W., D.Sc. Manc., M.Sc.,  
M.I.E.E. Prof.  
Lectrs. :  
Kipps, E. J., M.Sc., M.I.E.E.

MacElwee, N. M., B.Sc. (Mining  
Elec. Eng.)  
Jarvis, A. P., M.Sc.  
Greig, J., M.Sc.

*Engineering, Mechanical*

Lees, S., M.A. Camb., M.Sc.,  
M.I.M.E., M.I.A.E.

Chance Prof.

Ellis, S. J., M.Sc. Lectr.  
Boden, F. H., B.Sc. (Machine  
Design) Lectr.  
Sandifer, D. A. N., B.Sc. Lond.,  
M.Sc. Lectr.  
Drinkwater, J. W., D.Phil. Ox.,  
B.Sc. Manc.  
(Machine Design) Lectr.

*English*

Hughes, A. M. D., M.A. Ox. and  
Birm. Prof.  
Buchanan, Freda M., M.A. Edin.  
Lectr.  
Waterhouse, J. F., M.A. Ox. Lectr.  
MacFarlane, Nancy A., M.A. Ox.  
Lectr.  
Robertson, Agnes J., M.A. St.  
And., Ph.D. Camb.  
(E. Lang.) Lectr.  
Gardner, Helen, M.A. Ox. Lectr.  
Shapiro, I. A., M.A. Lectr.  
Duncan-Jones, Elsie, M.A. Camb.  
Pt.-time Lectr.

*Finance*

Smith, J. G., M.A. Dub., M.Com.  
Mitsui Prof.  
Court, W. H. B., M.A. Camb.  
and Harv.  
(Econ. Hist.) Lectr.  
Walker, G. J., B.A. Ox.  
(Econ.) Lectr.

*Fine Arts, v. Art*

*French*

Ritchie, R. L. Graeme, D.Litt.,  
LL.D. Aberd., D. de l'U.  
Paris, M.A., O.A., Chev. Lég.  
d'H. Prof.  
Milne, Jane J., M.A. Edin., D.Litt.  
Lectr.

Tait, Elizabeth W., M.A. Edin.  
Lectr.  
Walton, T., M.A. Manc., L. ès L.,  
D. de l'U. Paris Lectr.  
Knight, R. C., M.A. Ox. Lectr.

*Geography*

Kinvig, R. H., M.A. Liv. Reader.  
Lectrs.:  
David, Ethel, M.A. Camb.  
Pelham, R. A., M.A. Wales, Ph.D.  
McPherson, A. W., B.Sc. Glas.

*Geology and Mineralogy*

Wills, L. J., M.A., Sc.D. Camb.,  
Ph.D., F.G.S. Prof.  
Lectrs.:  
Raw, F., D.Sc. Lond., F.G.S.  
Marshall, C. E., B.Sc., Ph.D.  
Durh., F.G.S.  
Lamont, A., M.A., B.Sc., Ph.D.  
Glas. Asst. Lectr.

*German*

Sandbach, F. E., M.A. Birm. and  
Camb., Ph.D. Stras. Prof.  
Strachan, L. R. M., M.A. Ox.  
Lectr.  
Thorborn, A., M.A. Edin. Lectr.  
Baier, C., M.A. Liv., Ph.D.  
Tübingen Lectr.  
Parker, E. A., M.A., Ph.D. Graz.  
Pt.-time Lectr.

*History*

Hancock, W. K., B.A. Melb., M.A.  
Birm. and Ox. Prof.  
Hawgood, J. A., M.A. Lond., Ph.D.  
Heid.  
(Med. and Mod. Hist.) Reader.

Lectrs.:

Styles, Dorothy, M.A. Manc. and  
Leeds  
Adams, H. P., M.A. Camb.  
James, B. C. L., M.A. Ox.  
Stephens, J. S., M.A. Camb.  
Weitzman, Sophia, M.A., Ph.D.  
Manc.  
Styles, P., M.A. Ox.  
(Local Hist.) Special Lectr.



*Italian* [Serena Prof.  
Richardson, Linetta de C., M.A.

*Jurisprudence, v. Law*

*Law*  
Smalley-Baker, C. E., M.A. Birm.  
and Ox., LL.B. Harvard  
Barber Prof.  
Campbell, A. H., M.A. Edin. and  
Ox., B.C.L. Ox., LL.M.  
(Jurisprudence) Barber Prof.  
Hargreaves, A. D., M.A., LL.B.  
Camb. Reader.  
Davies, D. J. LL., M.A. Camb.,  
LL.B. Wales Reader.  
Pettitt, G. A. C. J.P.  
(Legal Ethics) Hon. Reader.  
Camm, W. C. Lectr.  
Grove, G. A., LL.M.  
Lectr. and Tutor.  
Saxby, C. O., B.A. Ox., F.C.A.  
(Trust Accounts) Lectr.  
Tilley, L. C., B.A., LL.B.  
Lectr. and Tutor.

*Malting and Brewing and Industrial Fermentation Processes*

Hopkins, R. H., D.Sc., F.I.C.  
Adrian Brown Prof.  
Norris, F. W., B.Sc., Ph.D. Lond.,  
A.I.C. Lectr.

*Mathematics*

Watson, G. N., Sc.D. Camb.,  
D.Sc. Lond., M.Sc., F.R.S.,  
F.R.A.S., F.I.P. (Pure M.)  
Mason Prof.  
Peierls, R., M.A. Camb., D.Phil.  
Leipzig, D.Sc. Manc.  
(Applied M.) Prof.  
Lectrs. : [F.R.A.S.  
Preece, C. T., M.A. Camb.,  
Colomb, Ruby, M.A. Lond.  
Calderwood, Nora I., M.A., B.Sc.,  
Ph.D. Edin.  
Lumsden, T. A., M.A., B.Sc. Edin.,  
F.R.A.S.  
Kuttner, B., M.A., Ph.D. Camb.

*Medicine, v. infra*

*Metallurgy*

Hanson, D., D.Sc. Liv., M.Sc.  
Feeney Prof.  
Jones, J. W., M.Sc. Lectr.  
Rollason, E. C., M.Sc. Lectr.  
Wright, T., Ph.D. Sheff.  
Asst. Lectr.

*Mining, Coal, and Metal*

Moss, K. N., O.B.E., M.Sc.,  
M.I.C.E., M.I.Min.E., F.G.S.  
Prof.  
Pryor, E. J., A.R.S.M., D.I.C.  
(Metal M.) Lectr.  
Garrett, J. G., B.Sc., M.I.Min.E.  
(Surveying) Lectr.  
Hancock, W., M.Sc., Ph.D., F.G.S.,  
M.I.Min.E.  
(Mine Rescue) Lectr.  
Ward S. G., M.Sc., Ph.D. Lond.  
(Coal Treatment) Lectr.

*Music*

Hely-Hutchinson, V., M.A.  
Peyton and Barber Prof.  
Blackall, A. K., Mus.D. Manc.,  
B.Mus., F.R.C.O. Lectr.  
Pearson, Nina, B.Mus.  
Asst. Lectr.

*Oil Engineering and Refining*

Nash, A. W., M.Sc., M.I.Mech.E.,  
M.I.P.T., F.I.F. Prof.  
Clark, L. V. Woodhouse, B.Sc.  
Manc., M.Sc. Lectr.  
Hunter, T. G., B.Sc., Ph.D.,  
A.R.T.C., A.I.C. Lectr.

*Philosophy, Mental and Moral*

Russell, L. J., M.A. Birm. and  
Glas., B.Sc., Ph.D. Glas. Prof.  
Duncan-Jones, A. E., M.A. Camb.,  
Ph.D. Lectr.  
Whiteley, C. H., B.A. Ox.  
Asst. Lectr.

*Physics*

Oliphant, M. L. E., B.Sc. Adel.,  
Ph.D. Camb., F.R.S.  
Poynting Prof.

## Lectrs. :

Shakespeare, G. A., M.A. Camb.,  
B.A., B.Sc. Lond., D.Sc.  
Barlow, G., D.Sc. Birm., Lond.  
and Wales, F.Inst.P.  
Ibbs, T. L., D.Sc.  
Young, J., B.Sc. Lond., A.R.C.S.,  
F.R.A.S.  
Dee, A. A., B.Sc. Lond., D.I.C.,  
A.R.C.S.  
Johnson, M. C., M.A. Camb., D.Sc.,  
F.R.A.S.  
Harrison, G. E., B.Sc., Ph.D.

*Physiology*

Gilding, H. P., M.A., B.M., B.Ch.  
Ox., M.D. Prof.  
Thorpe, W. V., M.A., Ph.D.  
(Chem. Physiol.) Reader.  
Berry, J. L., M.B., Ch.B. Lectr.  
Murphy, G. E., M.Sc., M.B., Ch.B.  
Lectr.  
Williams, R. T., B.Sc., Ph.D.  
Wales (Biochem.) Asst. Lectr.  
Walker, Hilda, M.B., Ch.B.  
Special Lectr.  
Watson, R. W. Whitfield, M.B.,  
Ch.B. Demr.  
Davison, P. H., B.Sc. Demr.  
Jacoby, F., M.D., Res. Asst.  
(Tissue Culture)  
Asst. Lectr. (Histol.)

*Russian*

Konovalov, S., B.Litt. Ox., M.A.  
Prof.

*Social Study*

Braithwaite, Constance, B.Sc.  
Lond.  
Pt.-time Lectr. and Tutor.

*Spanish*

Conroy, R., M.A. N.U.I. Lectr.  
Grant, Mrs. Helen F., M.A. Ox.  
Asst. Lectr.

*Zoology and Comp. Anatomy*

Fox, H. Munro, M.A. Camb., M.Sc.,  
F.R.S. Mason Prof.

Newth, H. G., M.Sc., A.R.C.S.,  
D.I.C. Lectr.  
Gunn, D. L., B.Sc. Wales, Ph.D.  
Lectr.  
Johnson, Minnie L., B.Sc., Ph.D.  
Lectr.

*\* Medicine*

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*).

Dean :—A. Stanley Barnes, B.Sc.,  
M.D. Lond., D.Sc., M.B.,  
Ch.B., F.R.C.P.

*Bacteriology, v. Path.*

*Ear, Nose and Throat, Diseases of*  
Woodman, E. M., M.S. Lond.,  
F.R.C.S. Lectr.

*Forensic M. & Toxicology*

Lloyd, B. A., M.B., B.S. Lond.,  
Ch.M., F.R.C.S. Prof.  
Walker, C., B.Sc., M.D. Asst.

*Hygiene and Public Health*

Newsholme, H. P., M.A., M.D.  
Ox., B.Sc. Lond., M.D. (State  
Med.), F.R.C.P. Prof.  
Auden, G. A., M.A., M.D., Ph.D.,  
D.P.H. Camb., F.R.C.P.  
(Hygiene) Asst.

*Industrial Hygiene and Medicine*

Collier, H. E., M.C., M.B., Ch.B.  
Edin. Reader.  
Killick, Esther, B.Sc., M.B., Ch.B.  
Leeds, M.R.C.P.  
Res. Worker and Lectr.

*Infant Hygiene and Dis. of  
Children*

Parsons, L. G., M.D. Lond.,  
F.R.C.P. Prof.

*Materia Medica, v. Therapeutics**Medicine*

Wynn, W. H., M.D. Lond., M.Sc.,  
F.R.C.P. Prof.

\* Exclusive of 65 clinical lecturers and tutors on the staffs of hospitals.

Cloake, P., B.Sc., M.D. Lond. and  
Birm. D.P.H. Camb.,  
F.R.C.P. Prof.  
Bulmer, E., M.D. Edin., F.R.C.P.  
Asst.

### *Mental Diseases*

Forsyth, C. W., M.D. Lond.  
Lectr.

### *Midwifery and Dis. of Women*

Whitehouse, Sir H. Beckwith,  
M.S. Lond., Ch.M., F.R.C.S.,  
F.C.O.G. Prof.

Lloyd, Hilda N., B.Sc., M.B.,  
Ch.B., F.R.C.S., F.C.O.G.  
Lectr.

Barnie-Adshead, W. E., B.Sc.,  
M.B., Ch.B., F.R.C.S. Eng.  
and Edin., M.C.O.G. Asst.

Danby, A. B., F.R.C.S.E.,  
F.C.O.G. Asst.

Ganner P. M.B., B.S. Lond.,  
F.R.C.S. Tutor.

### *Ophthalmology*

Hird, R. Beatson, M.D., F.R.C.S.E.  
Lectr.

### *Pathology and Bacteriology*

Wilson, G. H., M.B., Ch.B. Glas.,  
M.D. (Path.) Prof.

Shrewsbury, J. F. D., M.D., Ch.B.  
Liv., D.P.H. (Bact.) Prof.

McDonald, S., M.A., M.B., B.Ch.  
Camb., L.R.C.P., M.R.C.S.  
(Path.) Lectr.

Jones, R. E., M.R.C.S., L.R.C.P.,  
D.P.H. (Bact.) Lectr.

Smallwood, W. Carey, M.B., Ch.B.,  
M.R.C.P. Demr.

### *Pharmacology, v. Therapeutics*

#### *Radiology*

Black, Harold, M.D. Belf.,  
F.R.C.P. Lectr.

#### *Surgery*

Barling, S. G., C.M.G., M.B., B.S.  
Lond., Ch.M., F.R.C.S. Prof.

Gemmill, W., M.A., M.B., Ch.B.  
Edin., Ch.M., F.R.C.S. Prof.

Sampson, H. H., O.B.E., M.C.,  
M.B., Ch.B., F.R.C.S. Asst.

### *Surgery, Operative*

Raison, C. A., M.B., Ch.B., F.R.C.S.  
Lectr.

### *Surgery, Orthopædic*

Dunn, N., M.A., M.B., Ch.B.  
Aberd. Lectr.

### *Therapeutics*

Wilkinson, K. D., O.B.E., M.D.,  
F.R.C.P. Prof.

Smellie, J. M., M.D. Edin.,  
F.R.C.P. Lectr.

Greenwood, F. R., M.D., B.S.  
Lond., M.R.C.S.

(Mat. Med.) Lectr.

### *Dentistry*

Humphreys, H. F., K.H.P., O.B.E.,  
M.C., M.B., Ch.B., M.D.S.

(D. Surg.) Prof.

Broderick, R. A., D.S.O., M.C.,  
M.B., Ch.B., M.D.S.

(D. Bact.) Lectr.

Wellings, A. W., M.D.S.  
(Sp. Histol. and D. Path.)  
Lectr.

Stammers, A. F., L.D.S.  
(Sp. Histol. and D. Path.)  
Demr.

Parrott, A. H., O.B.E., M.D.S.  
(D. Mat. Med. and  
Therap.) Lectr.

Knott, W. M., L.D.S.  
(D. Mechs. and Pros-  
thetics) Lectr.

Hanson, Prof. D., D.Sc. Liv., M.Sc.  
(D. Metall.) Lectr.

Bulmer, E., M.D. Edin., F.R.C.P.  
(Med. for D. Students)  
Lectr.

Cale-Matthews, G. F., B.D.S.  
(Orthod.) Lectr.

Heather, J. C., M.D., M.R.C.P.  
(Pathol.) Lectr.

Roper-Hall, H. T., M.B., Ch.B.,  
B.D.S., M.R.C.S., L.R.C.P.,  
L.D.S. (Pathol.) Demr.

Debenham, R. K., M.A., M.D.  
Camb., F.R.C.S.  
(Surg. for D. Students)  
Lectr.

23 Clinical lecturers and tutors on  
staff of the Dental Hospital.

#### Muirhead Lecturer

1937—Prof. J. B. S. Haldane,  
M.A., F.R.S. (London Univ.)

#### William Withering Lecturer

1938—Sir Henry Dale, C.B.E.,  
M.A., M.D., F.R.C.P., F.R.S.

#### Ingleby Lecturer

1938—L. Colebrook, M.B., B.S.

#### Huxley Lecturer

1938—Emer. Prof. E. de Selin-  
court, M.A., D.Litt., LL.D.,  
F.B.A.

#### University Extension

Director of Extra-mural Studies,  
Tutor, Jt.-Sec. W.E.A.—B. I.  
Macalpine, M.A. Ox. Tutor  
and Jt.-Sec. W.E.A.—E. J.  
Studd. 26 other teachers.

## AFFILIATED INSTITUTIONS

**MIDLAND INSTITUTE.** Students are admitted to Intermediate Arts examn. as Internal students.

**HANDSWORTH AND LICHFIELD THEOLOGICAL COLLEGES.** Students can take the 2nd, 3rd and Final yrs. for the B.A. partly in their own Colls. *Principals*—Handsworth : Rev. W. F. Lofthouse, D.D. ; Lichfield : Rev. E. H. Ward, M.A.

## GENERAL INFORMATION

The University, formerly the Mason College founded by Sir Josiah Mason in 1880, was incorporated by Royal Charter in 1900. The Charter prescribes instruction in all branches of a liberal education, and such instruction especially as may be of service in the manufactures, commerce, and industrial pursuits of the Midlands. The Faculties of Arts, Medicine, and Law are still housed in the buildings of Mason College in the centre of the city. Other buildings have been erected and equipped at a cost of £850,000 at Edgbaston on a site of 100 acres.

**FACULTIES :** Arts, Commerce, Law, Science, Medicine. Deans : Prof. L. J. Russell, Prof. J. G. Smith, Prof. Smalley-Baker, Prof. K. Neville Moss, Dr. Stanley Barnes.

Departments of Education (training for teaching in primary, secondary, and continuation schools) ; Malting and Brewing and other Industrial Fermentation Processes ; Social Study. Connected with the Medical Faculty are a School of Dentistry and a Dept. of Industrial Hygiene and Medicine.

**LIBRARY,** about 200,000 vols. *Special Collections :* Sargant, rich in French economic literature of about 1830–1860 ; Collings, some 350 books on agric. and land problems ; Bunce, rich in nineteenth-century biography ; Corbett, county, especially Shropshire, history ; Holliday and others, art and architecture. **MUSEUMS,** Anat., Dent., Geol., Zool., Mining, Herbarium (Bot.).

**LABORATORIES :** Chemical (special organic, phys., electro-chem., analytical, and public health depts.) ; Physics, Biol., Engin., Metallurgy, and Mining (exceptionally well-equipped, expl. coal-mine and oil-boring plant, petroleum engineering being a speciality) ; Brewing ; Power-station supplying whole Univ. with lighting, heat and power ; Physiol. ; Pathol. ; Cancer

Research, Research in Mental Disease; Bacteriol. A small OBSERVATORY is attached to the dept. of Physics. HOSPITALS (750 beds) available for clinics—Birmingham United (General and Queen's) and many special.

JOINT BOARD OF RESEARCH FOR MENTAL DISEASE (the University and City). *Director*—F. A. Pickworth, B.Sc., M.B., B.S. Lond., A.I.C.; 3 assts. The research work at present is carried out in a laboratory at Hollymoor Mental Hospital.

ADMISSION. See Appendix I.

DEGREES. B.A., B.Mus., M.A., M.Mus., D.Litt., D.Mus.; B.Sc. (in pure Science, in Engineering—Mech., Civ., Elec.; in Oil Engin. and Refining; in Industrial Fermentation; in Metallurgy; in Mining—Coal and Metal; Coal Utilization), M.Sc., D.Sc.; M.B., Ch.B., B.D.S., M.D., M.D. (State Med.), Ch.M., M.D.S.; B.Com., M.Com.; LL.B., LL.M., LL.D.; Ph.D. (in any Faculty).

No degree can be obtained without attendance upon prescribed courses in the Univ. extending over at least 3 academic yrs. after matricn. except in the case of graduates of other approved Univs., who are, under certain conditions, admitted to the 1 yr. courses for the M.A. and M.Sc. and to 2 yr. courses for the B.Sc. (courses in technical subjects), B.Com., Ph.D. (v. p. 13), M.D., or Ch.M. B.A., with Honours, may be obtained in a Special School or in Grouped Subjects. (a) Special Schools: Classics, Engl., French, German, Italian, Spanish, Hist., Social and Polit. Science; Philos., Maths., Geog., Econ. (b) Various Groups, each of 3 subjects, have been approved by the Faculty of Arts (see p. 7).

There is an Honours School of Music in which B.Mus. (Hons.) can be obtained. Candidates must have passed the matricn. or an equivalent examn. and must satisfy the Prof. of Music that they have a sufficient knowledge of the Theory of Music and an adequate power of performance on some musical instrument.

In the B.Com. courses one-third of the student's time may, if he chooses, be devoted to work in Applied Science. There is a 4 yrs.' B.Com. course for students entering at Inter. B.Sc. standard, the first 2 yrs. in the Faculty of Science and the remaining 2 yrs. in the Faculty of Commerce.

B.Sc. Honours in Pure Science (3 yrs.) may be taken in all subjects in the Faculty. In Applied Science the B.Sc. courses in Engin., and in Oil Engin. and Refining, and Hons. Courses in Industrial Fermentation, in Mining and in Metallurgy cover 4 yrs. Those in Mining involve practical work underground. The B.Sc. course in Coal Utilization extends over 3 yrs.

Subject to certain provisos, graduates of Oxford who have obtained the Oxford Diploma in Scientific Engin. and Mining Subjects are eligible for the B.Sc. degree in Engin., Mining or Metall., and graduates of Oxford with Hons. in the Final Honour School of Nat. Sci., Eng. Sci., or of Cambridge with 1st or 2nd class in Mech. Sci. Trip., are eligible for the B.Sc. degree in Mining after 2 yrs.' study at Birmingham.

Med. students may spend their final yr. at any school or schools of Med. recognized by the Univ., and the Senate may recognize examns. passed therein as exempting from the 1st Med. examn. They may obtain the B.Sc. as well as their Med. degrees by devoting 7 yrs. instead of 6 to study in the Univ.

The M.A., M.Com., M.Sc. and M.Mus. involve at least 1 yr. of study after completing the course for the bachelor's degree.

The M.A. may be taken in Educn. as well as in the ordinary Arts subjects.

The D.Litt., D.Mus., D.Sc., or LL.D. may be taken 3 yrs. after the M.A., M.Mus., M.Sc. or LL.M.

*Advanced Standing.* Candidates who, before admission, pass certain examns. of other approved Univs. and Examining Bodies may be permitted to take the final examn. for the B.Sc. (Hons.) at the end of their 2nd yr., and to do advanced or research work in their 3rd yr.

*DIPLOMAS.* *Education*, 1 yr. for graduates of approved Univs. or others equally qualified; *Psychology of Childhood*, 1 yr. for graduates and other approved persons; *Public Health*, 1 yr. for persons who have obtained a registrable qualification in Med., Surg. and Midw., at least two years previously; *Dentistry*, 6 yrs.; *Commerce*, 1 yr. for graduates of approved Univs. who have passed adequate test in accounting; *Social Study*, 2 yrs. for intending officials in national or municipal administration, welfare superintendents, philanthropic workers, etc.; Higher Diploma in *Social Study*, 1 yr. after ordinary Diploma for graduates and other approved persons; Malting and Brewing, 3 yrs., graduates, 1 yr.

A Joint *Coal-mining* Diploma of the Univs. of Oxford and Birmingham may be taken by Oxford graduates in Engineering who, after 4 months' practical experience in coal-mining, pursue courses covering one session in this Univ. Tuition fee, £60. A similar Joint Diploma of Camb. and Birm. is given.

*CERTIFICATES.* Malting and Brewing (2 yrs.). Under the control of a joint board of Univ. and Trade Union representatives. The certificate is awarded after examn., and is not based on the principle of evening work but on full-time day work. The instruction is provided by members of the Univ. Staff. Evening classes are not provided by the Univ., this work being left to the Birm. and Midland Inst., Birmingham Commercial Coll., etc.

*RESEARCH.* A joint standing committee of members of council and members of senate co-ordinates research work in all faculties, formulates policies of research, obtains funds, and co-operates with Govt. agencies and external bodies. Trust Funds amount to £30,970. There are special committees for research in Mental Diseases and in Cancer.

*FEES.* Matricn., £2. Membership fee, £3 : 3s. p.a. Tuition for B.A., £100; B.Sc., £75-£96; Engin., £190; Mining, £140; Metall., £140; Med., including Hospl. fees, £192 : 17s.; B.D.S., £296 : 13s.; L.D.S., £270 : 0 : 6; B.Com., £89; LL.B., £29. Examns., Interm. and Final, for first degree, £10, except in Med., £21, and Engin., and Arts, £12 : 10s. Laboratory research fees, £15 to £30.

*POSTGRADUATE AND RESEARCH SCHOLARSHIPS.* 3 open to all Faculties; 17 in Sci.; 12 in Arts (1 of them reserved for Music); 2 in Com.; 3 in Law; also a Travelling Studentship (£300 for 1 yr.) biennially for research in Path.; 1 (£90) annually in one of the Facs. of Med., Com., or Law. Some of these are open to graduates of other Univs., but preference is always given to Birmingham graduates. For Fellowship and Research Studentships, v. App. II. 4 and 12.

*RESIDENCE.* For women there is a Hall of Residence—Univ. House, Edgbaston Park Rd. (Warden, Janet Carpenter, M.A.), with grounds of 2½ acres. For men—Chancellor's Hall (Warden, R. C. Panton, M.A., M.Sc.), Augustus Road, Edgbaston (96 students), with grounds of 7 acres. The cost of board and lodgings is from £2 : 2s. upwards a week.

*APPOINTMENTS BOARD* (Secy.—The Registrar, The University, Edmund Street, Birmingham; Asst. Secy., W. P. Brooks).

In 1936-37, 173 full-time permanent posts were obtained through the Board and Staff. These included: Educational, 70; manufacturing and technical, 75; administrative posts in commerce and industry, 28. In addition 52 graduates and others were found temporary employment.

**GUILD OF GRADUATES.** Six representatives serve on the Univ. Court of Governors and one representative is a member of the Univ. Council. A *Register of Graduates* and a *News Letter* are circulated annually to all members.

**UNIVERSITY EXTENSION** work includes Lectures and Tutorial Classes in the city of Birmingham and the Midland area. The Tutorial Classes are under the control of a Jt. Committee of the Univ. and the W.E.A.

**PUBLICATIONS.** *Calendar* (Oct.), 2s. ; Faculty and Departmental syllabuses, Regulations for Higher Degrees and Postgraduate Diplomas (during the Summer Term) ; *Careers in Science* ; *Report of University Research Committee*, including a bibliography of the research work published during the session (Feb.) ; students' magazine, the *Mermaid*.

## THE YEAR 1936-37

**BENEFACTIONS.** The following are the chief items : Hugh Morton Estate, £2354 (final balance of residue of Estate for general purposes). A. E. Hills, £25,000 (Post-Graduate Scholarships) ; Lady Scott-Moncrieff Bequest, £5000 ; James Baldwin Bequest, £1008 ; Baron Profumo, £500 (Dept. of Legal Studies) ; Walter Barrow Trust, £500 ; Edith Harrold Bequest, £198 ; Execs. of Joseph James, £100 (Dept. of Legal Studies) ; G. R. Edgar and R. Edgar, £100 (Chamberlain Memorial Museum). For Dept. of Industrial Hygiene and Medicine : contributions of about £2000 p.a. for a term of years from a number of firms. Contributions towards equipment of Chemistry Block, about £1000.

**NEW BUILDINGS.** Work on Barber Institute of Fine Arts proceeding. New (Hills) Chemistry Block completed. New Hospitals Centre and Medical School expected to be opened early in 1938.

**NEW POSTS.** Chair of Applied Mathematics founded ; Readership in Bacteriology converted into a Professorship.

**OTHER DEVELOPMENTS.** A special Course, leading to Degree of B.Sc. in Coal Utilization, instituted. Its object is to train young men of sound general education in the processes connected with the treatment of coal, its use, and the economic factors involved in marketing the finished product. Attendance at the Univ. is required for three sessions, and the curriculum embraces Lecture and Laboratory Courses in fundamental sciences, technology, and business principles and administration, and these are supplemented by practical experience during the vacations. The course is designed throughout to supply a comprehensive training in treating and marketing fuels under modern conditions of supply and demand.

**EXTRA-MURAL WORK.** The Joint Committee of University and W.E.A. continues to extend and consolidate its work in Birmingham and adjoining counties. A successful summer school was held.

**VISITORS TO THE UNIVERSITY.** Among those who lectured were : Prof. G. B. Barbour (London—Univ. Coll.), "Across the Western U.S.A. by Rail, Road and Air" (illustrated by colour film) ; Sir William Holdsworth (Oxford), "The Influence of Roman Law on British Equity" ; Miss Helen Darbyshire (Oxford), "Paradise Lost" ; Prof. Bernard Ashmole (London—Univ. Coll.) ; Dr. Dudley Stamp (London—Sch. of Econ.), "The High Andes of Bolivia" ; Rt. Hon. Lord Olivier, K.C.M.G., "White Capital and Coloured Labour" ; Mr. Wesley Dougill (Liverpool), "Regional Planning in England and Planning Activities in Foreign Countries" ; Prof. J. B. S. Haldane (London—Univ. Coll.), six Muirhead Lectures, "Biology and Political Science" ; Very Rev. W. R. Inge, "Margery Kempe of Lynn" ; Prof. Walter Gropius, "Flats or

Houses for Slum Clearance"; Prof. G. N. Clark (Oxford), "The Dutch Empire"; Prof. H. B. Charlton (Manchester), "Shakespeare's Romances."

HONORARY DEGREES. *LL.D.*: Rt. Hon. Lord Austin, of Longbridge; Sir Harry Gilbert Barling, Bt.; Mr. Edward Cadbury, Chairman of the Central Council of Selly Oak Colleges; Rt. Hon. Sir Wilfrid Arthur Greene, Master of the Rolls; Sir Percival Lea Dewhurst Perry, Chairman of Ford Motor Co. *D.Sc.*: Mr. C. C. Paterson, Director of General Electric Company's Research Laboratories. *D.Litt.*: Prof. F. M. Cornford, Prof. of Ancient Philosophy at Cambridge Univ.

STUDENTS. Full-time: 1406, including 166 graduates. Part-time: 194, including 62 graduates.

DEGREES. B.A., 62; M.A., 15; B.Com., 21; M.Com., 4; LL.B., 15; B.Sc., 100; M.Sc., 15; D.Sc., 4; M.B., Ch.B., 36; Ph.D., 21.



# UNIVERSITY OF BRISTOL

Founded 1909

VISITOR—H.M. THE KING.

CHANCELLOR—The Rt. Hon. WINSTON S. CHURCHILL, C.H., LL.D., M.P.  
(*ex officio* President of Court, Council and Convocation).

PRO-CHANCELLORS—STANLEY H. BADOCK, LL.D. ; The Rt. Hon. LORD  
DULVERTON OF BATSFORD, O.B.E., M.A. Ox., J.P. ; The Rt. Hon.  
THE VISCOUNT BLEDISLOE, P.C., G.C.M.G., D.Sc.

VICE-CHANCELLOR—THOMAS LOVEDAY, M.A. Ox., LL.D.

PRO-VICE-CHANCELLOR—Prof. J. F. DOBSON, M.A. Camb.

TREASURER—STANLEY H. BADOCK, LL.D.

LIBRARIAN—W. L. COOPER, M.A. Ox.

HON. MEDICAL LIBRARIAN—.....

SECRETARY AND REGISTRAR—WINIFRED SHAPLAND.

BURSAR—I. FOX.

Telephone : Bristol 23146 and 21744.

## TEACHING STAFF

- |  |  |
|--|--|
| <i>Agriculture</i> , v. also Associated<br>Instns.                                     | <i>Bio-Chemistry</i> , v. also Assoc.<br>Instns.                                   |
| Barker, B. T. P., M.A. Camb. (A.<br>Biology) Prof.                                     | Nierenstein, M., Ph.D. Berne,<br>D.Sc. Geneva. Reader.                             |
| Boutflour, R., M.Sc. Durh. Reader.   | <i>Botany</i> , v. also Assoc. Instns.   |
| <i>Anatomy</i>   | Skene, MacG., D.Sc. Aberd.   |
| Whitnall, S. E., M.A., D.M., B.Ch.<br>Ox., M.R.C.S., L.R.C.P.,<br>F.R.S. Can. Prof.    | Melville Wills Prof.   |
| Moore, C. A., M.S., M.B. Lond.,<br>Ch.M., F.R.C.S. (Surg. and<br>Applied Anat.) Lectr. | Yemm, E. W., B.A., D.Phil. Ox.<br>Lectr.   |
| Llewelyn, Gwladys R., M.Sc., M.B.,<br>Ch.B. Lectr.                                     | Bracher, Rose, M.Sc., Ph.D. Lectr.   |
| Parkes, A. R., M.B., Ch.B. Edin.<br>Lectr.   | Campbell, A. H., B.Sc., Ph.D.<br>Edin. Lectr.                                      |
| Stock, W. S. V., M.B., Ch.B.,<br>F.R.C.S. Demr.  | i Recogd. Teacher in Gardening.  |
| <i>Aramaic, etc.</i> , v. Orient. Langs.   | <i>Chemistry</i> , v. also Assoc. Instns.  |
|  | Hirst, E. L., M.A., D.Sc. St. And.,<br>F.R.S. A. C. Pass Prof.                     |
|  | Davis, O. C. M., D.Sc. Lond., D.Sc.,<br>M.D., Ch.B., M.R.C.P. (Med.<br>C.) Reader. |

## Lecturers :

- Rixon, F. W., M.Sc. Manc., Ph.D.  
 Gies., M.A., F.I.C.  
 Menzies, R. C., Ph.D., D.Sc. St.  
 And., F.I.C.  
 Malkin, T., D.Sc. Lond., Ph.D.  
 Manc.  
 Maxted, E. B., D.Sc. Lond., Ph.D.  
 Berl., F.I.C. (Catalysis).  
 Jones, J. K. N., B.Sc., Ph.D.  
 Birm. Asst. Lectr.  
 Randles, J. E. B., B.Sc. Lond.  
 Asst. Lectr.  
 King, Annie M., Ph.D.  
 Research Asst.

*Chemistry, Applied*, v. Engin.*Chemistry, Physical*

- Garner, W. E., M.Sc. Lond., D.Sc.  
 Birm. F.R.S.  
 Leverhulme Prof.  
 Bawn, C. E. H., Ph.D. Lectr.  
 Dunning, W. J., B.Sc. Liv.  
 Asst. Lectr.

*Classics* [H. O. Wills Prof.]

- Dobson, J. F., M.A. Camb. (Greek)  
 Beare, W., M.A. Dub. (Latin) Prof.  
 Eichholz, D. E., M.A. Camb.  
 Lectr.  
 Phillips, E. D. M.A. Ox.  
 Asst. Lectr.

*Dentistry*, v. *infra**Domestic Science*, v. also Assoc.  
Instns.

- Whitaker, Ruth Lectr.  
 Eland, Grace M. (Dom. Econ.)  
 Lectr.

*Economics*

- Whyte, W. H., M.A. Leeds Prof.  
 Tout, H., M.A. Ox. Lectr.  
 Magee, B., B.Com. Lond. (Ac-  
 countancy) Lectr.

*Education*, v. also *infra* Assoc.  
Instns.

- Foster, T. S., M.A. Ox., F.R.A.I.,  
 Master of Method, Director  
 of Training Reader.

## Lecturers :

- Whitwill, Gladys C., M.A.  
 Childs, E. C., M.A., B.D. Lond.  
 Pilley, J. G., M.A. Ox.  
 Warrell, A., M.A., F.R.C.O.  
 (Music).  
 Burch, Enid G., M.A. Camb.  
 Pye, Margaret W., B.A., Ph.D.  
 Lond.  
 Green, T. L., B.Sc. (Hyg.).  
 Jarman, T. L., M.A., B.Litt. Ox.,  
 A.M. Harv.  
 Nixon, Doreen G. C., M.B., B.S.  
 Lond., M.R.C.S., L.R.C.P.  
 (Hyg.) Recogd. Teacher.  
 Skinner, F. (Art) Recogd. Teacher.

*Engineering*, v. *infra**English* [Winterstoke Prof.]

- Crofts, J. E. V., B.A., B.Litt. Ox.  
 Birkhead, Edith, M.A. Liv. Lectr.  
 Needham, H. A., M.A. Birm.,  
 D. de l'U. Paris Lectr.  
 Tucker, Susie I., M.A. Ox. Lectr.

*French*, v. also Engin. [Prof.]

- Boillot, F. F., M.C., C.G., M.A.  
 Shef., L. ès L. Prof.  
 Warne, F. J., B.A. Lond. Lectr.  
 Gould, S. C., B.Litt. Ox., B.A.  
 Lectr.  
 Dufau-Labeyrie, F., L. ès L. Paris  
 Lecteur.

*Geography*

- Jervis, W. W., D.Sc. Durh. Prof.  
 Kendall, O. D., M.A. Camb. Lectr.  
 Jones, S. J., M.A. Wales Lectr.  
 Walker, F., M.A. Liv.  
 Asst. Lectr.

*Geology*

- Whittard, W. F., B.Sc. Lond.,  
 Ph.D. Lond. and Camb.  
 C. Wills Prof.  
 Turner, H. W., M.A. Ox., F.G.S.  
 Lectr.  
 Smith, S., M.A. Camb., D.Sc.  
 Durh. Lectr.  
 Wallis, F. S., D.Sc., Ph.D.  
 Asst. Lectr.

*German*, v. also Engin.

Closs, A. M., M.A., D.Phil. Graz.  
Hd. of Dept. Reader.  
Barber, C. C., M.A. Ox., D.Phil.  
Giessen Lectr.

*History*

[Prof.  
Mowat, R. B., M.A., D.Litt. Ox.  
MacInnes, C. M., M.A. Ox.  
(Imperial H.) Reader.  
James, R. I., M.A. Ox. Lectr.  
Butcher, Emily E., M.A. Lectr.  
Barger, E., B.A. Ox. Asst. Lectr.

*Law*

Lewis, M. M., M.C., M.A., LL.B.  
Camb. Prof.  
Veale, E. W. W., LL.D. Lond.  
Lectr.  
Wilshire, A. M., M.A. Ox., LL.B.  
Lond. (Comm. L.) Lectr.  
Bain, K., LL.B. Lond. Lectr.  
Green, J. Sp. Lectr.  
Forrest, G. A., B.A. Ox.  
Asst. Lectr.

*Mathematics, Applied*

Shepherd, W. M., D.Sc. Lond.  
Lectr.  
Newing, S. T., B.Sc. Lond.,  
A.R.C.S. Lectr.

*Mathematics, Pure*

Hassé, H. R., M.A. Camb., D.Sc.  
Manc. H. O. Wills Prof.  
Fraser, P., M.A. Camb., M.A.,  
B.Sc. Aberd. (Geom.) Reader.  
Todd, H., B.A. Camb. Lectr.  
Vint, J., M.A. Belf. Lectr.  
Linfoot, E. H., D.Phil. Ox. Lectr.  
White, Mary J., B.Sc.  
Research Asst.

*Medicine*, v. *infra**Military Subjects*

Ray, W. H. B., Capt., The Dorset-  
shire Regt. Sp. Lectr.

*Mining*, v. Engin.*Music*, v. Educn.*Oriental Languages*

O'Leary, De L., M.A., D.D. Dub.  
(Aramaic and Syriac).  
Sp. Lectr.

*Philosophy*

[Prof.  
Field, G. C., M.A., D.Litt., B.Sc. Ox.  
Carré, M. H., M.C., M.A. Ox.  
Lectr.  
Macleod, J. Winifred, M.A. Glas.,  
B.Litt. Ox. Sp. Lectr.

*Physics*, v. also Chem. Physical  
and Engin.—Applied Ch.

Tyndall, A. M., D.Sc. Lond. and  
Brist., F.R.S., F.I.P.  
H. O. Wills Prof.  
Mott, N. F., M.A. Camb., F.R.S.  
(Theoret. P.)  
Melville Wills Prof.  
Skinner, H. W. B., M.A., Ph.D.  
Camb. (Spectrosc.).  
H. H. Wills Research Fellow  
and Lectr.  
Jackson, L. C., M.Sc. Lond., Ph.D.  
Leiden  
H. H. Wills Research Fellow.  
Piper, S. H., D.S.O., D.Sc. Lond.,  
F.I.P. Reader.

*Lecturers :*

Williams, Ilttyd, M.Sc. Wales.  
Sucksmith, W., D.Sc. Leeds.  
Potter, H. H., Ph.D. Lond., B.Sc.  
Powell, C. F., B.A., Ph.D. Camb.  
Jones, H., B.Sc. Leeds, Ph.D.  
Camb. and Leeds.  
(Theoret. P.)  
Thompson, N., B.Sc. Ph.D. Sheff.

*Research Assts. :*

Appleyard, E. T. S., M.A., Ph.D.  
Camb.  
Burch, C. R., B.A. Camb., Ph.D.  
Lond.  
Gurney, R. W., M.A., Ph.D. Camb.  
Harper, W. R., M.A., Ph.D. Camb.

*Physiology*

Brocklehurst, R. J., M.A., D.M.,  
B.Ch. Ox. Prof.

## Lecturers :

Wiltshire, Marion O. P., D.Sc.  
 Ashford, C.A., M.A., Ph.D. Camb.  
 1 Recognized Teacher in Psychol.

*Theological Subjects*

For Univ. Staff v. *infra* Assoc.  
 Instns.

*Zoology*

Yonge, C. M., D.Sc. Edin. Prof.  
 Sloane, J. F., B.Sc. Glas. Lectr.  
 Kitching, J. A., M.A. Camb.,  
 Ph.D. Lond. Lectr.  
 Jenkin, Penelope M., M.A. Camb.  
 Lectr.  
 Matthews, L. H., M.A. Camb.  
 Sp. Lectr.  
 Spalding, J. F., B.Sc. Lond.  
 Grad. Demr.

**Engineering**

In the Technical College of the  
 Society of Merchant Venturers—  
 Principal of the College and Dean,  
 Fac. of Engin., Prof. A. Robert-  
 son, D.Sc. Edin., M.I.Mech.E.,  
 M.Inst.C.E., F.R.Ae.S.

*Applied Chemistry*

Andrews, W. A., B.Sc. Birm. Lectr.

*Civil Engineering*

Baker, J. F., M.A. Camb., D.Sc.  
 Wales. Prof.  
 Gibbs, E. F., Ph.D. Lond. Lectr.  
 Elgood, W. N., B.Sc. St. And. Lectr.

*Drawing*

Mountney, C. F. Instr.

*Electrical Engineering*

Robertson, D., D.Sc. Glas.,  
 M.I.E.E. Prof.  
 Holmes, S. Lectr.  
 Chard, F. de la C., M.Sc. Lond.  
 Lectr.

*Mechanical and Mining En-  
gineering*

Robertson, A. (v. *supra*) Prof.

Watson, F. R. B., B.Sc. Edin.  
 (Mech. E.) Lectr.

Dearden, W. H., M.Sc. Manc.  
 (Metall.) Lectr.

Morrison, J. L. M., B.Sc.  
 (Mech. E.) Lectr.

*French and German for Engin.  
 Students* [Asst. Lectr.

Bennett, Edith, M.A. Birm.

**Medicine**

(for subjects of first 2 yrs.—Anat.,  
 etc., v. *supra*)

*Anæsthetics*

Corfield, C., M.D. Durh. Lectr. (C.).  
 Moore, L. A., M.B., Ch.B., M.R.C.S.,  
 L.R.C.P. (C.).  
 Logan, H. B., M.R.C.S., L.R.C.P.  
 Tutor.

Bradbeer, E. G., M.B., Ch.B.  
 Tutor.

## 4 Recognized Teachers.

*Bacteriology, v. Pathology**Diseases of Children*

Birrell, J. A., M.D., B.S. Lond.,  
 M.R.C.P. (C.).  
 Gee, C. A. H., M.B., Ch.B. (C.).

*Diseases of the Skin*

Kingston, S. H., M.B., Ch.B.,  
 D.P.H. (C.).  
 Burgess, N., M.A., M.D., B.Ch.  
 Camb., M.R.C.P. (C.).

*Fevers*

Peters, B. A., M.D., B.Ch., D.P.H.  
 Camb., M.R.C.P. (C.).

*Forensic Med.*

Davis, O. C. M., D.Sc. Lond. and  
 Brist., M.D., Ch.B., M.R.C.P.  
 (Hd. of Dept.) Lectr.

*Laryng., Rhin., and Otology*

Wright, A. J. M., M.B., B.S. Lond.,  
 M.B., Ch.B., F.R.C.S.  
 Lectr. (Hd. of Dept.) (C.).

(C.)=Clinical Lectr.

Watson-Williams, E., M.C., M.B., B.Ch. Camb., M.B., Ch.M., F.R.C.S.Ed. (C.).  
 Scarff, G. R., M.B., Ch.B., F.R.C.S. Ed. (C.).  
 Baker, Lily A., M.D., B.Ch., B.A.O. Dub., F.R.C.S.I. (C.).  
 Shepherd, H. L., Ch.M., M.B. (C.).

James, J. A., M.D., B.S. Lond., M.B., Ch.B., F.R.C.S. (C.).

1 Recognized Teacher.

*Materia Med. and Practical Pharmacy*

Davis, O. C. M., D.Sc. Lond. and Brist., M.D., Ch.B., M.R.C.P.

Reader.

2 Recognized Teachers in Pract. Pharm.

*Medicine*, v. also Path., Pharm.

Perry, C. B., M.D., Ch.B., F.R.C.P. Prof.\*

Clarke, R. C., O.B.E., M.B., Ch.B., M.R.C.P. (C.).

Herapath, C. E. K., M.C., M.D., B.S. Lond., Clin. Dean. (C.).

Todd, A. T., O.B.E., M.B., Ch.B. Edin., M.R.C.P. (C.).

Carleton, H. H., M.A., M.D., B.Ch. Ox., M.R.C.P. Sr. Tutor (C.).

Birrell, J. A., M.D., B.S. Lond., M.R.C.P. (C.).

Sutton, G. E. F., M.C., M.D. Lond., M.R.C.P. Jr. Tutor (C.).

Orr-Ewing, H. J., M.D. Lond., F.R.C.P. Jr. Tutor (C.).

Disney, M. E., M.D. Lond., M.R.C.P. (to Dental Students) Demr.

1 Recognized Teacher.

*Mental Diseases*

Martin, J. J. B., M.B., Ch.B. Edin., M.R.C.P. Edin. (C.).

*Obstetrics*

Smythe, H. J. D., M.C., M.D., M.S. Lond., F.R.C.S.

Prof. (C).\*

Hector, F. J., M.D., Ch.B., F.R.C.S. Tutor (C.).

2 Recognized Teachers.

*Ophthalmology*

Iles, A. E., O.B.E., M.B., B.S. Lond., F.R.C.S.

(Hd. of Dept.) Lectr. (C.).

Chambers, E. R., F.R.C.S.E., D.O.M.S. (C.).

1 Recognized Teacher.

*Path. and Bacteriology*

Davie, T. B., B.A. Cape, M.D. Liv., M.R.C.P. Prof.

Fraser, A. D., M.A., B.Sc., M.B., Ch.B. Glas., D.P.H. Lectr.

Taylor, A. L., M.D., Ch.B. Leeds. Lectr.

Magee, V., M.B., Ch.B., B.A.O. Belf., D.P.H. Lectr.

Woodman, Dorothy, M.Sc., M.D., B.S. Lond. Lectr.

*Pharmacology*

Thornton, J. W. de W. G., M.A., B.M., B.Ch. Ox. Lectr.

*Physio-Therapeutics*

Spoor, A. T., M.A. Camb., M.R.C.S., L.R.C.P. Lectr.

*Preventive Medicine and Public Health*

Parry, R. H., M.D., B.S. Lond., M.R.C.P., D.P.H. Prof.

Gray, J. D. A., B.Sc., M.B., Ch.B., Edin., F.R.C.P.E., D.P.H.

(Sr. Bacteriologist) Lectr.

Needs, F. E., F.I.C.

(Chem. of Hyg.) Lectr.

Stone, Doris M., M.D., D.P.H. Lond.

Lectr. and Sr. Clin. Pathologist.

(C.)=Clinical Lectr.

\* Director of Clinical Studies.

Davies, I. G., M.B., B.S. Lond.,  
M.R.C.P., D.P.H.  
(Public Hlth.) Demr.  
..... Asst. Clin. Pathologist.

Wiseman, Jean, B.Sc. Edin.  
Jr. Bacteriologist.  
2 Recognized Teachers.

*Radio-Therapy and Radiology*  
Bergin, F. G., M.R.C.S., L.R.C.P.  
(C.).  
Bush, G. B., M.B., Ch.B.,  
D.M.R.E. (C.).  
Adams, S. B., M.B., Ch.B., Ph.D.,  
D.M.R. (C.).  
1 Recognized Teacher.

*Surgery*  
Short, A. R., B.Sc., M.D., B.S.  
Lond., F.R.C.S. Prof.\*  
Moore, C. A., M.B., M.S. Lond.,  
Ch.M., F.R.C.S.  
Clin. Dean (C.).  
Chitty, H., M.B., M.S. Lond.,  
F.R.C.S. (C.).  
Adams, A. W., M.B., M.S. Lond.,  
F.R.C.S. (C.).  
Tasker, D. G. C., B.Sc., M.B., M.S.  
Lond., F.R.C.S. (C.).  
Cooke, R. V., M.B., Ch.M., F.R.C.S.  
Jr. Tutor (C.).  
Wood, D., F.R.C.S. Sr. Tutor (C.).  
FitzGibbon, G. M., M.D. Lond.,  
F.R.C.S. (C.).

Jackman, W. A., M.B., Ch.B. (C.).  
Paul, R. G., L.R.C.P., F.R.C.S.E.  
Jr. Tutor (C.).  
Pridie, K. H., M.B., Ch.B. (C.).  
2 Recognized Teachers.

### Dentistry

#### *Dental Anat.*

Nichols, F. C., M.B., Ch.B.,  
M.R.C.S., L.R.C.P., L.D.S.  
Lectr.

#### *Dental Mechanics*

Stoy, P. J., B.D.S. Birm., L.D.S.,  
R.C.S. (Hd. of Dept.) Lectr.

#### *Dental Surgery*

Fawn, G. F., B.D.S., M.R.C.S.,  
L.R.C.P.  
(Hd. of Dept.) (C.) Lectr.  
Nichols, F. C. (C.).  
Kettlewell, N. H., H.D.D. Edin.,  
L.D.S. (C.).  
Rigg, S. K., L.R.C.P., L.R.C.S.E.,  
L.D.S. (C.).  
Lennox, W. J., B.D.S. Tutor.  
Simmonds, N. H., L.D.S. Tutor.  
Wells, J., L.D.S., H.D.D. Edin.  
Tutor.  
Hogbin, F. R., L.D.S. Tutor.  
Willway, F. W., M.D., M.S. Lond.,  
F.R.C.S. Demr.

#### *Orthodontics*

Kettlewell, N. H. Lectr.

(C.) = Clinical Lectr. \* Director of Clinical Studies.

### University Extension

Director of Extra-mural studies—Salt, W. E., M.A. Sheff., B.Com.  
Manc. Extra-mural Lecturers: 34 members of the staff, including 15  
for Tutorial Classes.

Resident Tutors: *Gloucestershire*—Taylor, W. R., B.Sc. (Econ.) Lond.  
*Somerset*—Cair, S. H., B.Sc. (Econ.) Lond.; Ollett, F. A., M.A. Camb.  
*Dorset*—Booth, N. H., B.Litt. Ox. *Wilts*—Dacombe, Marianne R.,  
M.A. Ox.

**Social Work, Theory and Practice of**—1 Recognized Teacher.

**Training Course for Health Visitors**—6 Recognized Teachers.

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|--|---|
| <p><b>Lewis Fry Memorial Lecturer</b><br/>         1937-38—R. E. Mortimer Wheeler,<br/>         M.C., D.Lit., "Cities and<br/>         Citizenship in Prehistoric and<br/>         Roman Britain: a review of<br/>         recent evidence."</p> | <p><b>Arthur Skemp Memorial Lecturer</b><br/>         (<i>English Literature, biennial</i>)<br/>         1939—.....</p> |
|--|---|

ASSOCIATED INSTITUTIONS, in which specialized teaching is given or facilities for research are afforded :—

#### *Agriculture*

LONG ASHTON RESEARCH STATION (Dept. of Agriculture and Horticulture), Long Ashton, Bristol. Director and Univ. Prof. of Agric. Biol., B. T. P. Barker, M.A. Camb. Staff with the standing of Reader in the Univ.: Deputy Director, T. Wallace, M.C., D.Sc. Durh., A.I.C. (*Chem.*). With the standing of Lectrs. in the Univ.: *Bio-Chem.*—J. O. Jones, M.Sc. Wales; V. L. S. Charley, B.Sc., H. Martin, M.Sc. Lond. *Entomol.*—H. G. H. Kearns, B.Sc. Lond., Ph.D. Camb., Dip. Agric. *Entomol., Econ.*—C. L. Walton, Ph.D. Wales, M.Sc. *Mycol.*—R. W. Marsh, M.A. Camb. *Mycol., Econ.*—L. Ogilvie, M.A., B.Sc. Aberd., M.Sc. Camb. *Pomology*—G. T. Spinks, M.A., Dip. Agr. Camb.; T. Swarbrick, M.Sc., Ph.D. Leeds. *Willow Growing*—H. P. Hutchinson, B.Sc. Lond. With the standing of Asst. Lectrs. in the Univ.: *Plant Physiol.*—Elsie S. Smyth, B.Sc., Ph.D.; Jessie Ferguson, M.Sc. Reading. *Pomology*—W. E. Berry, B.Sc., Ph.D. Leeds. *Soil Survey*—D. A. Osmond, B.Sc., Ph.D.; 3 Research Assts., 13 Lab. and Plantation staff. See also App. III. I. (b).

BERKELEY SQUARE ADVISORY CENTRE. Staff with the standing of Lectrs. in the Univ.: *Agric. Chem.*—A. W. Ling, M.Sc., N.D.A. *Agric. Econ.*—C. V. Dawe, M.Com. Leeds, Ph.D. *Vet. Sci.*—D. W. Menzies, M.R.C.V.S. With the standing of Asst. Lectrs. in the Univ.: *Dairy Bacteriol.*—J. W. Egddell, B.Sc. Durh., N.D.A., N.D.D. *Poultry Pathol.*—J. S. Garside, M.R.C.V.S. With the standing of Teachers in the Univ.: *Agric. Chem.*—H. T. Watkins, M.Sc., Wales. *Agric. Econ.*—J. E. Blundell, M.Com. Birm.

No. of inquiries in 1936, 6486.

CAMPDEN RESEARCH STATION, CAMPDEN, GLOS. For instruction and experimentation in fruit and vegetable preserving on a commercial scale. With the standing of Lectrs. in the Univ.: Director, F. Hirst, M.Sc., A.R.C.S. (*Micro-Biol.*); W. B. Adam, M.A., A.I.C. (*Chem.*). 3 Research Assts. See also App. III. I. (b).

ROYAL AGRICULTURAL COLLEGE, CIRENCESTER. Principal and Univ. Reader in Agric., R. Boutflour, M.Sc. Durh. With the standing of Teachers in the Univ.: *Agric.*—J. F. H. Thomas, M.Sc. Lond., N.D.A.; P. S. Brown, B.Sc. Agr., N.D.A.; W. T. Price, N.D.A., N.D.D.; B. J. Fricker, N.D.A., N.D.D.; H. L. Knapp, B.Com. Lond.; G. Williamson, B.Sc. Agr. Durh. *Agric. Sci.*—G. Redington, D.Sc. Aberd.; E. Shaw, B.Sc. Durh. *Botany*—R. Holliday, B.Sc. Leeds. *Chemistry*—C. Tyler, B.Sc., Ph.D. Leeds. *Estate Management*—H. N. Jacobs, N.D.A., P.A.S.I. *Forestry*—A. D. C. Le Sueur, B.Sc. Agr., F.S.I., Dip. For. *Surveying, Agric. Implements and Engin.*—A. Noble, B.Sc. Lond., N.D.P. *Vet. Sci.*—A. C. Duncan, B.Sc. Agr., F.R.C.V.S.

#### *Domestic Science*

GLOUCESTERSHIRE TRAINING COLLEGE OF DOMESTIC SCIENCE, GLOUCESTER. For practical course for B.Sc. in Dom. Sci. Principal and Univ. Lectr. in

Dom. Sci., Ruth Whitaker. Staff with the standing of Teachers in the Univ. : *Cookery*—Eileen M. Benson, Edith A. Wright. *Dressmaking*—Irmgard B. Pick. *Housewifery*—A. Margaret Kaye. *Laundry Work*—Ethel Henney. *Method*—Enid H. Jenkin. *Needlework*—Kate A. Voller. *Sci.*—Jessica D. Byett.

NATIONAL TRAINING COLLEGE OF DOMESTIC SUBJECTS, 72-78 Buckingham Palace Rd., London, S.W.1. For practical course for B.Sc. in Dom. Sci. Principal and Univ. Lectr. in Dom. Econ., Grace M. Eland. Staff with the standing of Teachers in the Univ. : *Cookery*—Katherine M. Challen. *Edn. and Craft*—Kathleen J. Lough. *Edn.*—Evelyn Lawrence, B.Sc. Econ., Ph.D. Lond. *Home Management*—Gertrude E. Cottrell. *Laundry Work, etc.*—Hylda M. Lancaster. *Needlework*—Gladys E. Quick, Dorothy M. Howlett (and *Dressmaking*). *Sci.*—Hilda Shaw, B.Sc. Lond. *Sci. and Craft*—Patience Dumas, B.Sc. Lond.

#### *Education (for Kindergarten Training)*

REDLAND HIGH SCHOOL FOR GIRLS, BRISTOL. Recognized Teacher—Miss H. Philips.

COLSTON'S GIRLS' SCHOOL, BRISTOL. Recognized Teacher—Miss M. Whitney, B.A. Lond.

CLIFTON HIGH SCHOOL FOR GIRLS. Recognized Teacher—Margaret K. Elliott.

*Theology* (the following are members of the Univ. staff in Theol. subjects for the B.A.)

BAPTIST COLLEGE, BRISTOL. Principal, Rev. A. Dakin, B.D. Lond., D.Th. Heid. Rev. F. E. Robinson, B.A., B.D. Lond., M.A.

WESTERN COLLEGE, BRISTOL. Principal, Rev. R. S. Franks, M.A. Camb., D.Litt. Ox., LL.D.

THEOLOGICAL COLLEGE, SALISBURY. Principal, Rev. Canon A. B. Burrowes, D.D. Ox. ; Rev. Chancellor C. T. Dimont, D.D. Ox., M.A. ; Rev. Canon S. P. T. Prideaux, D.D. Ox. ; Rev. K. N. Ross, M.A. Ox. ; Rev. A. S. Gribble, M.A. Ox. ; Rev. W. G. C. Addison, M.A. Camb., B.D., Ph.D. Lond.

ST. BONIFACE MISSIONARY COLLEGE, WARMINSTER. Principal, Rev. Canon E. C. West, M.A. Camb. ; Vice-Principal, Rev. C. B. Moss, M.A. Ox., B.D., T.C.D. ; Rev. J. F. Clayton, M.A. Ox. ; Rev. B. H. P. Fisher, M.A. Camb. ; Rev. S. M. Gibbard, B.A. Camb.

## GENERAL INFORMATION

The Bristol Medical School, founded in 1833, merged with the University College which was established in 1876. The College was dissolved and the University received its Charter in 1909. Its main buildings, opened in 1925, occupy a commanding site between the City and the residential districts, cost £500,000 ; the H. H. Wills Physics Laboratory, opened in 1927, cost £200,000. The Faculty of Engineering is housed in the Merchant Venturers' Technical College, and a grant for the maintenance of the Faculty is made by the Society of Merchant Venturers. Canynge Hall, within easy reach of the University, accommodates the Departments of Preventive Medicine, Pathology, Medicine, Surgery and Obstetrics.

LIBRARIES, 114,000 vols. LABORATORIES: Scientific, Medical, and Engineering, all equipped for purposes of research. Hospitals available for clinical



study, 2 General (675 beds), Children and Women (120), Eye (40), in all 835 beds.

**FACULTIES.** Arts, Science, Medicine, Engineering, Law. Deans: Prof. W. W. Jervis, D.Sc. (Geog.), Prof. C. M. Yonge (Zool.), Prof. R. J. Brocklehurst (Physiol.), Prof. A. Robertson (Mech. and Mining Eng.), Prof. M. M. Lewis (Law).

*Special Departments.* Education (places for 290 men and women students); Law; Agriculture and Horticulture; Preventive Medicine Laboratory (for investigation of epidemic and other outbreaks, examination of waters and foods).

**ADMISSION.\*** See Appendix I.

**DEGREE COURSES.** B.A., B.A. (Com.), B.Sc., B.Sc. in Agriculture, B.Sc. in Engineering, LL.B.—3 yrs., including at least 2 in the Univ.; Honours in Arts, Pure Science and General Science—4 yrs., except for those who enter with Higher School Certif.; B.Sc. in Domestic Science—4 yrs.; by research in case of a graduate of another Univ.—2 yrs.; M.B., Ch.B.—5 yrs., after passing a Prelim. Science examn. in Chem. and Physics; B.D.S.—5½ yrs., including at least 3 in the Univ.

Instruction given in Theological subjects in the Associated Colleges to undergraduates of the Univ. by the Principal or teachers mentioned above is, for the purpose of the B.A. degree, deemed to be given in and by the Univ.

**HIGHER DEGREES.** M.A., D.Litt.; M.Sc., D.Sc. (in Pure Sc. or Engineering); Ch.M., M.D.; LL.M., LL.D.; Ph.D. (see p. 13). Graduates of other Univs. are placed practically on the same footing as graduates of Bristol as regards facilities for proceeding to all these except the Medical Degrees. Candidates who graduate with Honours in Science may take the M.Sc. one yr. later. Otherwise the Mastership is not granted within 2 yrs. after graduating. The M.D. may be taken 2 yrs. after graduating in Med., the D.Litt. 4 yrs. after the M.A., and the D.Sc. 4 yrs. (3, if devoted to original work in the Univ.) after the M.Sc. The LL.M. 2 yrs., the LL.D. 4 yrs. after graduating. V. also Changes in Regns., *infra* p. 40.

**DIPLOMAS.** Education (post-graduate) 1 yr., Public Administration 2 yrs., L.D.S. 4 yrs., Engineering 3 yrs.

**CERTIFICATES.** Testamur in Social Study, 2 or (Higher Testamur) 3 yrs., Biblical Studies, 2 yrs., Applied Bacteriology (postgraduate), 1 yr., Midwife Teachers', 9 months.

**FEES.** Matricn., 3 gs.; Registration, £1:10s.; Tuition, annual, B.A., 24 gs., Theol. Students (1st year only), 20 gs.; B.Sc., 30 gs.; B.Sc. in Engin., 40 gs. (Lab. practice alone, 4 gs. per term for one day a week); M.B., Ch.B., entire curriculum, 220 gs.; B.D.S., including mech. lab. and hospl. practice, 214 gs.; LL.B., 24 gs.; Testamur in Social Study, 2 yrs., 27 gs.; Dip. in Public Admin., 2 yrs., £18; Certif. in Biblical Studies, 2 yrs., £10; Midwife Teachers' Certif., 9 months, 9 gs. Examination and degree fees: B.A., B.Sc., LL.B., 12½ gs.; M.D., 24 gs.; M.D.S., 24 gs.; M.A., M.Sc. and LL.M., 9½ gs.; LL.D., 24 gs.; Ph.D., 13 gs. Univ. Union, £3:10s. per annum. Home Students' Societies, 10s. 6d.

**RESEARCH.** The Colston Research Society devotes annually from £600 to £700 to the promotion of Research in the Univ. It offers, preferably to Bristol graduates, fellowships of £150 each, the money being provided by donors, who are allowed to determine the subject of the research and, subject to the approval of the Board of the Faculty, to nominate the holder. The donor has a right of

access to the research work and to receive the result of it 12 months prior to publication

**SCHOLARSHIPS FOR GRADUATES.** £160 for research in Engin.; £40 and £31 (women only); £52 for Chemical Metall. research; £30 for study in English Lit.; Graduate Scholarships for Research (total not exceeding £2000 p.a.), value £60 to £100 each; Studentship in Philosophy, £100; Fellowship for Medical research, £100. For particulars of the Michael Hiatt Baker Scholarship, etc., *v. App. II. 1* and 18.

**RESIDENCE.** Mortimer House and Wills Hall for men—from £75 p.a.; Clifton Hill House and Manor Hall for women students—from 60 gs. p.a.

**APPOINTMENTS BOARD.** Secy., T. A. Leach, M.A. Victoria Rooms, Bristol 8.

During the calendar year 1936 the number of permanent posts obtained through the Board and otherwise by graduates and others who had registered with the Board was 117, viz. 80 men, 37 women. Educational 70; Government and Local Government Services, 8; Commerce and Industry, 24; Miscellaneous, 15.

For FORMER STUDENTS there is an Association of Alumni. Secretary—Mrs. I. A. Warne.

**UNIVERSITY EXTENSION.** Co-operation with Rural Community Councils. The Univ. appoints 3 representatives to the R.C.C. of Gloucestershire and Somerset respectively. The Director of Extra-mural Studies in the Univ. is Chairman of the Education Committee of each of the two Councils. Both Rural Community Councils contribute to the salary of whole-time tutors for Adult Education appointed by the Univ. for those Counties.

Schemes for Wiltshire and Dorset have been organized in co-operation with the Education Committees for these Counties, each of which contributes to the cost. Resident Tutors have been appointed to organize the work in each county, *v. p. 35*.

**PUBLICATIONS.** *Calendar* (Oct.); Faculty Prospectuses issued in June; Annual Report of Council; Handbook and Directory of Adult Education, Public Lectures, Halls of Residence, Regns. for Matricn. and for School Certif. Examns. (*Examn. Papers*, 1s. 3d. per set post free); Students' Mag. *Nonesuch*, 1s.

## THE YEAR 1936-37

**BENEFACTIONS.** Rt. Hon. Lord Dulverton of Batsford, £5000 for Entrance Scholarships. Mr. W. D. M. Wills, £1000 for erection of Director's House at Long Ashton. £2500 for Francis Fellowship Fund for Research in Chemistry. £100, Pease-Mullock Loan fund for women students in Dept. of Education.

**NEW BUILDINGS.** Plans for new Dental School approved. Plans being prepared for extension of the Science buildings, of Library and for new Medical School.

**NEW POSTS.** Readership (for present Lectureship) in Bot. Lectureships (for present Asst. Lectureships) in French, Bot. and Zool. Lectureships in Physics, Zool. and Clin. Pathol. Special Lectureship in Law. Clinical Lectureships (for present Recognized Teacherships) in Radio-Therapy. Asst. Lectureship (for present Research Assistantship) in Chem. Asst. Lectureships in Chem. and Physical Chem. Demonstratorships in Public Health and in Med. and Surg. to Dental Students. Recognized Teacherships for Psychol., Med., Health Visitors' Courses and Agric.

**OTHER DEVELOPMENTS.** Institution of Certificate in Applied Bacteriology. Social Survey of families containing children with rheumatic heart disease (in conjunction with general Social Survey of Bristol).

**CHANGES IN REGULATIONS.** Ordinance governing degree of M.Sc. in Engineering amended. Ordinance governing degrees amended to allow prescribed period for B.D.S. degree to be extended to 4½ years. Ordinance governing Univ. of Bristol Union amended by raising fee to £3: 10s. p.a. Regulations for B.A. degree amended by inclusion of award of distinction for students offering alternative curriculum in Theol. Regulations for B.Sc. degree amended by inclusion of Geol., Geog. as approved subsidiary subject and of Applied Bacteriol. as addnl. subject in Honours School of General Science; also by addition of a Third Class in B.Sc. Honours examn. Regulations for degrees of M.B., Ch.B. and B.D.S. and for Diploma in Dental Surg. remodelled.

**EXTRA-MURAL WORK.** University Tutorial Classes and Extension Courses in Gloucestershire, Somerset, Wiltshire and West Dorset; 35 Tutorial Classes in conjunction with the W.E.A. with a student membership of 461; 166 Extension Lectures in 5 centres. In rural areas, special village courses and lectures organised by the Resident Tutors in conjunction with the Rural Community Councils and Advisory Committees; 59 centres in Gloucestershire, 70 in Somerset, 34 in Wiltshire, and 27 in West Dorset; 94 short courses and 126 single lectures were held. Several series of public evening lectures in the Univ.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Dr. Wickham Steed, the Lewis Fry Memorial Lectures on "The Fate of the Hapsburg Monarchy". The Hon. V. Sackville-West, the Arthur Skemp Memorial Lecture on "The Life of Lady Anne Clifford". Mr. Geoffrey Webb, course of Art Lectures on "English Architecture in the Middle Ages". Prof. W. G. Constable, a Lecture on "Old-Master Drawings" in connexion with an exhibition of drawings lent by the Duke of Devonshire. Prof. H. L. Hawkins lectured to the Botanical and Geological Societies; Prof. C. H. Desch, Prof. I. M. Heilbron, Dr. Rose Scott-Moncrieff and Prof. S. Sugden lectured to the Chemical Society; Mr. J. B. Leishman lectured to the English Assn.; M. L. E. Genissieux, M. A. Alexandre, M. H. C. Ault, M. Jean Massip, and the Comtesse de Pange lectured to the French Circle; Mr. F. G. Hannell, Mr. C. C. Carter lectured to the Geographical Assn.; Prof. H. G. Fiedler, Dr. Krause, Dr. G. Wilmsen, Prof. W. E. Collinson, Dr. W. I. Lucas and Dr. O. H. Edwards lectured to the German Society; Dr. G. P. Gooch and Mr. F. G. Hankin lectured to the Historical Assn.; Dr. Carlos Magno lectured to the International Society; Prof. Rudolf Sieverts lectured to the International and Law Societies; Prof. Allan Ferguson lectured to the Physical Society.

**VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES.** Mr. J. G. Pilley, Lectr. in Education, is spending this session in the Univ. of Columbia. Mr. R. W. Gurney, George Wills Associate in Physics, visited several Univs. in the U.S.A. in the session 1936-7. Mr. H. R. Burrows, Lectr. in Economics, made a study tour in the U.S.A. in the spring of 1937.

**RETIREMENTS.** M. W. Travers (Phys. Chem.); Millicent Taylor (Chem.); A. Griffin (Commercial Subjects, Engin.).

**RESIGNATIONS.** Prof. A. E. Trueman (Geol.); H. D. Westlake (Classics); C. H. Johnson (Phys. Chem.); P. Pilbin (Geog.); B. J. Marples (Zool.); F. A. Vallat (Law); T. B. Wansborough (Radiol.); R. T. Cooke, Grizel R. Borthwick and T. H. Shaw (Preventive Med.); E. Rea (Agric.); Rev. A. J. G. Hawes, Rev. C. P. S. Clarke and E. Greasley (Theol.); Florence E. Riddell, Dorothy Clayton, Evelyn M. Hale and Charlotte M. Hutchinson (Domestic Sci.).

DEATHS. Rt. Hon. Henry Hobhouse (Pro-Chancellor) ; Emeritus Prof. F. Brooks (Classics) ; Dr. G. Parker (Hon. Medical Librarian) ; Mr. J. A. Arrow-smith-Brown (Hon. Sec., Univ. Colston Research Society) ; Alderman W. Bryant (Member of Council) ; W. E. Francis (Lectr. in Civil Engin.) ; Mr. Harry Coward (Member of Court and Honorary Graduate) ; Dr. Sydney Young (formerly Prof. of Chem. in University Coll., Bristol, and an Honorary Graduate) ; Mr. E. P. West, Secretary-Manager, Agricultural Research Station : Mr. E. J. Burt, Inspector of Lodgings.

STUDENTS. Full-time : 1012, including 62 graduates. Part-time : 175, including 43 graduates.

DEGREES. B.A., 13 ; B.A. Hons., 53 ; B.A. Com., 1 ; M.A., 9 ; M.A. Edn. 3 ; LL.B., 2 ; LL.B. Hons., 4 ; B.Sc., 11 ; B.Sc. Hons., 38 ; B.Sc. (Agr.), 1 ; B.Sc. (Dom. Sc.), 4 ; M.Sc., 3 ; D.Sc., 1 ; B.Sc. Eng., 11 ; B.Sc. Eng. Hons., 6 ; M.Sc. Eng., 5 ; D.Sc. Eng., 1 ; M.B., Ch.B., 13 ; M.B., Ch.B. Hons., 1 ; B.D.S., 3 ; M.D., 1 ; Ph.D. (Science), 12 ; Ph.D. (Engin.), 1.

# UNIVERSITY OF CAMBRIDGE

Founded in the XII<sup>th</sup> century

CHANCELLOR—The EARL BALDWIN OF BEWDLEY, D.C.L. Ox. and Durh.,  
M.A., LL.D. Trinity, F.R.S.

VICE-CHANCELLOR—Professor H. R. DEAN, M.D., Master of Trinity Hall.

HIGH STEWARD—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G.,  
G.C.V.O., B.A., Hon. LL.D. Trinity.

DEPUTY HIGH STEWARD—Rt. Hon. BARON WRIGHT OF DURLEY, M.A.  
Trinity.

COMMISSARY—Hon. Mr. JUSTICE MACNAGHTEN, K.B.E., K.C., M.A.  
Trinity.

PROCTORS—A. B. STEEL, M.A. Christ's; R. H. ANGUS, M.A. Sidney  
Sussex.

ORATOR—T. R. GLOVER, D.D. St. And., Litt.D. Dub., LL.D. Qu.,  
McMaster, Glas., M.A. St. John's.

REGISTRARY—E. HARRISON, LL.D. Glas., M.A. Trinity.

SECRETARY GENERAL OF THE FACULTIES—J. T. SAUNDERS, M.A.  
Christ's.

ASSISTANT REGISTRARY—H. CLAYE, M.A. Gonville and Caius.

LIBRARIAN—A. F. SCHOLFIELD, M.A. King's.

TREASURER—T. KNOX-SHAW, M.C., M.A. Sidney Sussex.

ASSISTANT TREASURER—C. R. MACDONALD, M.A. Caius.

REPRESENTATIVES IN PARLIAMENT—See p. 18.

NOTE. The Colleges and Heads of Colleges are given on pp. 53 ff.

Telephone : Registry—Cambridge 2495.

## TEACHING STAFF

<i>Aeronautics</i> , v. Engineering	Barron, D. H., Ph.D. Yale, M.A. Lectr.
<i>Agriculture</i> , v. <i>infra</i>	Boyd, J. D., M.A. Cla. Lectr. Green, H. L. H. H., M.A. Sid. Lectr.
<i>Anatomy</i> , v. also Zool.	Reynolds, S. J. R., M.A. Trin. Demr.
Harris, H. A., D.Sc., M.D. Lond., B.Sc. Wales, M.A. Joh. Prof.	Baxter, J. S., M.B., B.Ch. Belf., M.A. Demr.
Duckworth, W. L. H., M.D., Sc.D. Jes. (Human A.) Reader.	

Davies, D. V., M.B., B.S. Lond., M.A. Demr.	Fyfe, D. T., M.A. Pemb., F.R.I.B.A. Lectr.
Morton, W. R. M., M.D. Belf. Demr.	<i>Assyriology</i> , v. Oriental Langs.

*Anglo-Saxon, etc.*

Chadwick, H. M., M.A. Clare  
Elrington and Bosworth Prof.  
de Navarro, J. M., M.A. Trin.  
Lectr.

Hoare, Agnes D. M., Ph.D. Newn.  
Lectr.

*Anthropology*

Driberg, J. H., M.A. Trin. Lectr.

*Anthropology, Social*

Hutton, J. H., M.A., D.Sc. Ox.  
William Wyse Prof.

*Arabic*, v. Oriental Langs.*Archæology*, v. also Classical A.,  
Classics, Oriental Langs.

Minns, E. H., Litt.D. Pemb.  
Disney Prof.  
Burkitt, M. C., M.A. Trin. Lectr.  
Faculty Asst. Lectrs. :  
Blair, P. H., B.A. Emm.  
Clark, J. G. D., M.A., Ph.D. Pet.

*Architecture*

Macgregor, J., M.A. Manc. and  
Camb., Director, Sch. of  
Arch.

## Lecturers :

Fyfe, D. T., M.A. Pemb.,  
F.R.I.B.A.

Tomlinson, H., M.A. Chr.  
Webb, G. F., M.A. Magd. Demr.

## Faculty Asst. Lectrs. :

Dyson, W. P., M.A. Trin.  
Bennett, J. S. W., B.A. Down.  
Bicknell, P., M.A. Jes.

*Art*

Webb, G. F., M.A. Magd.  
Slade Prof. of Fine Art  
and Lectr.

*Astronomy and Experimental  
Philosophy*

Eddington, Sir A. S., M.A. Trin.,  
LL.D., D.Sc., F.R.S.

Woolley, R. van der R., M.A.,  
Ph.D. Cai.  
Plumian Prof.

First Asst. & Adams Astronomer.  
Green, H. E., M.A. Second Asst.

*Astron. & Geom.*

Hodge, W. V. D., M.A. Pemb.  
Lowndean Prof.

*Astrophysics*

Stratton, F. J. M., D.S.O.,  
O.B.E., T.D., M.A. Cai.

Prof., Dir. Solar Physics  
Obs.

Redman, R. O., M.A., Ph.D. Joh.  
Lectr.

Thackeray, A. D., M.A., Ph.D.  
King's

Asst. Dir., Solar Physics Obs.  
Wormell, T. W., M.A., Ph.D. Joh.

Obs. in Meteorological Phys.  
Moss, W.

1st Sen. Solar Physics Observer.  
Dobbie, J. C., M.A. Trin.

2nd Senior Observer.  
Brück, H., D.phil. Berlin

1st Junior Observer.

*Biochemistry*

Hopkins, Sir F. G., O.M., M.A.,  
Sc.D. Trin., P.R.S.

Sir W. Dunn Prof.  
Needham, N. J. T. M., M.A.,  
Ph.D., Sc.D. Cai.

Sir W. Dunn Reader.  
Bell, D. J., M.A. Jes. Lectr.

Dixon, M., Ph.D., Sc.D. Emm.  
Lectr.

Holmes, E. G., M.D. Down. Lectr.

Baldwin, E. H. F., B.A., Ph.D.  
 Joh. Demr.  
 Pirie, N. W., M.A. Emm. Demr.

### *Biology*

Keilin, D., M.A. Magd., F.R.S.  
 (Dir. of Molteno Inst. of Bio-  
 logic and Parasitol.)

Quick Prof.

Tate, P., Ph.D. Chr. (Parasitol.)  
 Lectr.

### *Botany*, v. also Agric.

Brooks, F. T., M.A. Emm., F.R.S.  
 Prof.

Briggs, G. E., M.A. Joh. (Plant  
 Physiol.) Reader.

Thomas, H. H., Sc.D. Down.,  
 F.R.S. (Plant Morphol.)  
 Reader.

### Lecturers:

Catcheside, D. G., M.A.  
 Gilbert-Carter, H., M.A. Trin.  
 Godwin, H., M.A., Ph.D. Cla.  
 Maskell, E. J., M.A., Ph.D. Emm.  
 (Plant Physiol.)  
 Dowson, W. J., M.A. Chr. (Mycol.).  
 Watt, A. S., B.A., Ph.D. Down.  
 (Forest Bot.).

### Demonstrators:

Valentine, D. H., M.A. Joh.  
 Richards, P. W., M.A., Ph.D.  
 Trin.

Turner, J. S., M.A., Ph.D. Selw.  
 Evans, G. C., B.A. Joh. (Plant  
 Physiol.).

### *Celtic*

Jackson, K. H., M.A. Joh.  
 Fac. Asst. Lectr.

### *Chemistry*, v. also Biochem., Physiol., Theoret. Chem. and Prev. Med.

Pope, Sir Wm. J., K.B.E., M.A.  
 Sid., F.R.S. Prof.  
 ..... Asst. to Prof.

Mills, W. H., M.A. Jes. (Stereo-  
 chem.) Reader.

### Lecturers:

Berry, A. J., M.A. Down.  
 Kipping, F. B., M.A., Ph.D.  
 Trin.

Lewis, W. B., M.A., Ph.D. Cai.  
 McCombie, H., M.A., Sc.D. King's  
 Mann, F. G., Ph.D., Sc.D. Trin.  
 Palmer, W. G., M.A. Joh.  
 Stockdale, D., M.A., Ph.D. King's.

### Demonstrators:

Maitland, P., Ph.D. Jes.  
 Moelwyn-Hughes, Emyr A., Ph.D.  
 Corp.  
 Price, W. C., B.Sc. Wales, Ph.D.  
 Johns H.  
 Saunders, B. C., M.A., Ph.D.  
 Magd. (to 30.9.38)

### *Chemistry, Physical*

Norrish, R. G. W., B.A., Ph.D.,  
 Sc.D. Emm., F.R.S. Prof.  
 Rideal, E. K., M.A. Trin. H.,  
 F.R.S. (Colloid Sci.)  
 J. H. Plummer Prof.  
 Bowden, F. P., Ph.D. Cai.  
 H. O. Jones Lectr.  
 Roberts, J. K., Ph.D. Trin.  
 (Colloid. Sci.) (to 30.9.38)  
 Asst. Dir. of Res.  
 Schulman, J. H., Ph.D. Trin. H.  
 (Colloid Sci.)  
 Asst. Dir. of Res.

### *Chemistry, Theoretical*

Lennard-Jones, J. E., Ph.D. Corp.,  
 D.Sc. Manc., F.R.S.  
 J. H. Plummer Prof.

### *Classical Archaeology*

Wace, A. J. B., LL.D. Liv., M.A.  
 Pemb. Laurence Prof.  
 Lawrence, A. W., M.A. Qu.  
 Laurence Reader.

### *Classics*

[Reg. Prof.]  
 Robertson, D. S., M.A. Trin. (Greek)  
 Anderson, W. B., M.A. Trin.  
 (Latin) Kennedy Prof.  
 Sheppard, J. T., M.A. King's  
 Brereton Reader.

Angus, Rev. C. F., M.A. Trin. H.  
 Perceval Maitland  
 Laurence Reader.  
 Charlesworth, M. P., M.A. Joh.  
 (Anc. Hist.) Laurence Reader.

## Lecturers :

Angus, Rev. C. F., M.A. Trin. H.  
 Campbell, S. G., M.A. Chr. (Epi-  
 graphy and Dialects).  
 Deas, H. T., M.A. Cai.  
 Edmonds, J. M., M.A. Jes.  
 Gardner, R., M.A. Emm.  
 Glover, T. R., M.A. Joh. (Ancient  
 History).  
 Gow, A. S. F., M.A. Trin.  
 Greenwood, L. H. G., M.A. Emm.  
 Guthrie, W. K. C., M.A. Pet. (to  
 30.9.38).  
 Hackforth, R., M.A. Sid.  
 Hallward, B. L., M.A. Pet.  
 Hammond, N. G. L., M.A. Cla.  
 Jenkins, R. J. H., M.A. Emm.  
 (Mod. Gk.).  
 Lewis-Gibson Lectr.  
 Jones, W. H. S., Litt.D. Cath.  
 Lucas, D. W., M.A. King's.  
 Peck, A. L., M.A., Ph.D. Chr.  
 Rattenbury, R. M., M.A. Trin.  
 Sandbach, F. H., M.A. Trin.  
 Seltman, C. T., M.A. Qu.  
 Sheppard, J. T., M.A. King's.  
 Sills, H. H., M.A. King's.  
 Sinker, A. P., M.A. Jes.  
 Toynbee, Jocelyn, M.A. Newn.  
 Vernon Jones, V. S., M.A. Magd.  
 Wilkinson, L. P., M.A. King's.  
 Faculty Asst. Lectrs. :  
 Griffith, G. T., M.A. Cai.  
 Howland, R. L., M.A. Joh.  
 Lee, H. D. P., M.A. Corp.

*Divinity*, v. also Orient. Langs.

Creed, Rev. J. M., D.D. Joh.  
 Ely Prof.  
 Marsh, Rev. F. S., M.A. Selw.  
 Lady Margaret's Prof.  
 Dodd, Rev. C. H., M.A. Ox.,  
 Manc. and Camb., D.D.  
 Aberd. Norris-Hulse Prof.

Raven, Rev. C. E., D.D. Chr.  
 Reg. Prof.  
 Whitney, Rev. J. P., D.D. Emm.  
 (Eccles. Hist.) Dixie Prof.  
 Cockin, F. A., M.A. Ox.  
 (Pastoral Theol.) Lectr.

## Other Lecturers :

Boys Smith, Rev. J. S., M.A. Joh.  
 Burnaby, Rev. H., M.A. Emm.  
 Chase, Rev. G. A., M.A. Selw.  
 Gardner-Smith, Rev. P., M.A.,  
 B.D. Jes.  
 Heywood, H. C. L., M.A. Cai.  
 Smith, Rev. B. T. D., D.D. Sid.  
 Stevenson, J., M.A. Joh.  
 Telfer, Rev. W., M.A., D.D. Cla.  
 Wood, Rev. C. T., B.D. Qu.

*Economics and Politics*

Pigou, A. C., M.A. King's  
 (Polit. Econ.) Prof.  
 Robertson, D. H., M.A. Trin.  
 Reader.  
 Fay, C. R., M.A. Chr.  
 (Econ. Hist.) Reader.  
 Sraffa, P., M.A. King's  
 Ass. Dir. of Res. in Econ.

## Lecturers :

Alston, L., M.A. Chr.  
 Clark, C. G., M.A. Cai. (Statistics).  
 Dobb, M. H., M.A. Pemb.  
 Guillebaud, C. W., M.A. Joh.  
 Hicks, J. R., M.A. Cai. and Ox.  
 D.Sc. Lond.  
 Hollond, Mrs. M., Girton.  
 Kahn, R. F., M.A. King's.  
 Robinson, E. A. G., M.A. Sid.  
 Rowe, J. W. F., M.A. Pemb.  
 Shove, G. F., M.A. King's  
 Girdlers' Lectr.  
 Thatcher, W. S., M.A.

## Faculty Asst. Lectr. :

Robinson, Mrs. Joan V., M.A.  
 Girton (to 30.9.38)



*Education*

Asst. Lecturers:

Williamson, R. S., M.A. Chr. (to  
30.9.38)  
Meldrum, R., M.A. Joh

*Engineering, v. infra*

*English, v. also Anglo-Saxon*  
Quiller-Couch, Sir A. T., M.A. Jes.  
K. Ed. VII. Prof.

Lecturers:

Bennett, H. S., M.A. Emm.  
Bennett, Mrs Joan, M.A. Girton  
Davies, H. S., M.A. Joh.  
Downs, B. W., M.A. Chr.  
Henn, T. R., M.A. Cath.  
Leavis, F. R., B.A., Ph.D. Down.  
Lucas, F. L., M.A. King's.  
Potts, L. J., M.A. Qu.  
Richards, I. A., M.A., Litt.D.  
Magd.  
Rylands, G. H. W., M.A. King's  
(to 30.9.38)  
Tillyard, E. M. W., M.A., Litt D. Jes.  
Welsford, Enid E. H., M.A.  
Newn.  
Willey, B., M.A. Pemb.

Faculty Asst Lectr.:

Thomas, Mary G. Ll., M.A. Girton.

*Entomology*

Imms, A. D., M.A. Chr Reader.  
Thorpe, W. H., M.A., Ph.D. Jesus  
Lectr.

*French*

Green, F. C., M.A. Magd. and St.  
And., Ph.D. Cologne, D. de  
l'U. Paris Drapers' Prof.  
Stewart, Rev. H. F., D.D. Trin.  
Reader.

Ashton, H., Litt.D. Cai. Lectr.  
Beves, D. H., M.A. King's Lectr.  
Briggs, E. R., M.A., Ph.D. Trin.  
Lectr.  
Charvet, P. E., M.A. Corp. Lectr.  
Harmer, L. C., M.A., Ph.D. Fitzw.  
Lectr.

Stokoe, F. W., M.A. Cai. Lectr.  
Vulliamy, E. O., M.A. King's Lectr.  
Thenault, P. Lectr.  
Bourilly, J. Lectr.

*Genetics* [Arthur Balfour Prof.  
Punnett, R. C., M.A. Cai., F.R.S.

*Geodesy*

Lenox-Conyngham, Col. Sir G. P.,  
M.A. Trin. Reader.  
Browne, B. C., B.A. Pemb. Demr.

*Geography*

[Prof.  
Debenham, F., O.B.E., M.A. Cai.  
Lecturers:  
Craster, Lt.-Col. J. E. E., M.A.  
Down  
Darby, H. C., M.A., Ph.D. King's.  
Stanners, R. W., M.A. Cai.  
Steers, J. A., M.A. Cath.  
Wanklyn, Harriet G., M.A. Girton  
Wooster, W. A., M.A., Ph.D. Pet.  
(to 30.6.38).  
Lewis, W. V., M.A. Cai. Demr.

*Geology, v. also Mineral.*

Jones, O. T., M.A. Cla., F.R.S.  
Woodwardian Prof.  
Elles, Gertrude L., M.A. Newn.  
Reader.  
Shotton, F. W., M.A. Sid. Lectr.  
Bulman, O. M. B., Ph.D., Sc.D.  
Sid. (Palaeozool.) Lectr.  
Black, M., M.A. Trin. Demr.  
St Joseph, J. K. S., B.A., Ph.D.  
Selw. Demr.

*Geophysics*

Jeffreys, H., M.A. Joh. Reader.

*German*

Williams, R. A., M.A. Cath., Litt.D.  
Dub., D.Lit. Belf., Ph.D.  
Leipzig Schröder Prof.

Bennett, E. K., M.A. Cai. Lectr.  
 Garland, H. B., M.A., Ph.D.  
 Emm

Jones, T. D., M.A. Trin. H.  
 Knight, A. H. J., M.A. Trin. Lectr.  
 Pascal, R., M.A. Pemb. Lectr.

Faculty Asst. Lectrs. :  
 Auty, R., B.A. Cai.  
 Forster, L. W., B.A. Selw.  
 Rosteutscher, J. H. W., Ph.D. Cai.  
 Bettex, A. W. Basel Lector.

*Hebrew*, v. Oriental Langs.

### *History*

#### Lecturers :

Balfour, R. E., M.A. King's.  
 Barraclough, G., M.A. Joh.  
 Brooke, Z. N., Litt.D. Cai.  
 Bury, J. P. T., M.A. Corp.  
 Butler, J. R. M., M.A. Trin.  
 Butterfield, H., M.A. Pet.  
 Cam, Helen M., M.A. Girton.  
 Crawley, C. W., M.A. Trin. H.  
 Evennett, H. O., M.A. Trin.  
 Jones, Mary G., M.A. Girton.  
 Kitson Clark, G. S. R., M.A. Trin.  
 Laffan, R. G. D., M.A. Qu.  
 Manning, B. L., M.A. Jes.  
 Morris, G. C., M.A. King's.  
 Oakeshott, M. J., M.A. Cai.  
 Passant, E. J., M.A. Sid.  
 Perrett, G. B., M.A. Selw.  
 Pickthorn, K. W. M., M.A., Litt.D.  
 Corp., M.P.  
 Postan, M. M., M.Sc. Lond., M.A.  
 Pet. (to 30.9.38)  
 Rich, E. E., M.A. Cath.  
 Runciman, Hon. J. C. S., M.A.  
 Trin.  
 Salter, F. R., M.A. Magd.  
 Saltmarsh, J., M.A. King's.  
 Simpson, Rev. F. A., M.A. Trin.  
 Steel, A. B., M.A. Chr.  
 Welbourne, E., M.A. Emm.

#### Faculty Asst. Lectrs. :

Sikes, J. G., M.A. Jes.  
 Behrens, Catherine B. A., M.A.  
 Newn.

*History, Ancient*, v. also Classics  
 Adcock, F. E., M.A. King's Prof.

*History, Eccl.*, v. Div.

*History, Econ.*

Clapham, J. H., C.B.E., Litt.D.  
 King's (to 30.9.38) Prof.  
 Postan, M. M., M.Sc. Lond., M.A.  
 Pet. (from 1.10.38) Prof.  
 Fay, C. R., M.A. Chr. Reader.

*History, Imperial and Naval*

Walker, E. A., M.A. Ox. and Cape,  
 M.A. Joh.  
 Vere Harmsworth Prof.

*History, Indian*

[Lectr.  
 Gaskoin, C. J. B., M.A. Jes.

*History, Medieval*

[Prof.  
 Previté-Orton, C. W., Litt.D. Joh.

*History, Modern*

Trevelyan, G. M., O.M., D.Lit.  
 Lond., Litt.D., M.A. Trin.  
 Reg. Prof.  
 Temperley, H. W. V., O.B.E.,  
 M.A., Litt.D. Pet., F.B.A.  
 Prof.

*Hygiene*, v. Med.

*Industrial Relations*

Hilton, J., M.A.  
 Montague Burton Prof.

*Italian*

Vincent, E. R. P., M.A. Ox and  
 Corp., D.Phil. Ox. Prof.  
 Butler, Kathleen T. B., M.A.  
 Girton Lectr.  
 Pettoello, D. E. S., Dr. Phil. Turin.  
 M.A. Jes. Lectr.  
 Speight, Kathleen, M.A. Manc.  
 and Girton Lector.

*Law*, v. *infra*

*Logic*, v. Philos.

*Mathematics*, v. also Physics

Dirac, P. A. M., Ph.D. Joh., F.R.S.  
 Lucasian Prof.

Hardy, G. H., M.A. Trin., F.R.S.  
(Pure M.) Sadleirian Prof.  
Littlewood, J. E., LL.D. St. And.,  
D.Sc. Liv., M.A. Trin., F.R.S.  
Rouse Ball Prof.

Lecturers :

Besicovitch, A. S., M.A. Trin.,  
F.R.S. Cayley Lectr.  
Babbage, D. W., M.A., Ph.D.  
Magd (to 30.9.38).

Burkill, J. C., M.A. Pet.  
Cartwright, Mary L., M.A. Girton  
(to 30.9.38).

Cunningham, E., M.A. Joh.  
Dean, W. R., M.A. Trin.  
Goldstein, S., M.A., Ph.D. Joh.,  
F.R.S. Stokes Lectr

Hall, P., M.A. King's  
Howarth, L., B.A., Ph.D. King's.  
Ingham, A. E., M.A. King's.  
Newman, M. H. A., M.A. Joh  
Pars, L. A., M.A. Jes.  
Pollard, S., M.A. Trin.

Powell, F. C., M.A., Ph.D. Cai. (to  
30.9.38).

Steen, S. W. P., M.A. Chr.  
Stoneley, R., Sc.D. Joh.  
Taylor, H. M., M.A., Ph.D. Cla.  
Todd, J. A., B.A., Ph.D. Trin.  
White, F. P., M.A. Joh.  
Wilson, A. H., M.A. Trin.  
Wood, P. W., M.A. Emm.

Faculty Asst. Lectrs. :

Booker, H. G., B.A., Ph.D. Chr.  
Lyttleton, R. A., M.A., Ph.D. Joh.  
Pryce, M. H. L., B.A. Trin.  
Wilkes, M. V., B.A. Joh. Demr.

*Medicine and Surgery*, v. *infra*

*Metallurgy*

Hutton, R. S., D.Sc. Manc., M.A.  
Cla. Goldsmiths' Prof.  
Evans, U. R., Sc.D. King's  
Asst. Director of Research.

*Meteorology*, v. *Astrophysics*

*Military Studies*

Murray, Col. K. D. B., C.B., D.S.O.,  
M.A. Pet. Director.

*Mineralogy and Petrology*

Tilley, C. E., Ph.D. Emm. Prof.

Lectrs :

Phillips, F. C., M.A., Ph.D. Corp.  
Wooster, W. A., M.A., Ph.D. Pet.  
(to 30.6.38).

Demrs. :

Nockolds, S. R., Ph.D. Trin.  
Evans, R. C., M.A., Ph.D. Cla.  
Henry, N. F. M., Joh.

*Moral Science*, v. *Philos.*

*Music*

Dent, E. J., M.A., Mus.B. King's  
Prof.

Moule, H. C. C., M.A., Mus B  
Trin. Lectr.

Ord, B., M.A., Mus.B. King's  
Lectr.

Rootham, C. B., Mus.D. Joh.  
(Harmony and Counter-  
point) Lectr.

*Oriental Langs.*, v. *infra*

*Palæozoology*, v. *Geology*

*Parasitology*, v. *Biology*

*Petrology*, v. *Mineralogy*

*Philology, Comparative*

Jopson, N. B., M.A. Joh. Prof.

*Philosophy*

Moore, G. E., Litt.D. Trin. Prof.

*Philosophy, Ancient*

Cornford, F. M., M.A., Litt.D.  
Trin. Laurence Prof.

*Philos., Moral*, v. also *Psychol.*

Broad, C. D., Litt.D. Trin.

Knightbridge Prof.  
Braithwaite, R. B., M.A. King's

Sidgwick Lectr.  
Ewing, A. C., M.A., Litt. D. Trin. H.  
Lectr.

Wisdom, A. J. T. D., M.A. Trin.  
Lectr.

*Philos., Natural*

Appleton, E. V., LL.D. Aberd.,  
D.Sc. Lond., M.A. Joh.,  
F.R.S. Jacksonian Prof.

*Physics*, v. also *Philos., Nat.*

Bragg, W. L., O.B.E., Sc.D. Dub.,  
M.Sc. Manc., M.A., F.R.S.,  
F.Inst.P., N.L.  
(Exper. P.) Cavendish Prof.

Thomson, Sir J. J., O.M., M.A.,  
Sc.D. Trin., F.R.S. Prof.  
Fowler, R. H., M.A. Trin., F.R.S.  
(Math. P.) J.H. Plummer Prof.

*Lecturers :*

Wood, A., M.A. Emm.  
Davies, Ann C., Newnh.  
Bedford, T. G., M.A. Sid.  
Feather, N., B.A., Ph.D. Trin.  
Ratcliffe, J. A., M.A. Sid.  
Cockcroft, J. D., M.A., Ph.D. Joh.  
Dee, P. I., M.A. Sid.

*Demonstrators :*

Lewis, W. B., M.A., Ph.D. Cai.  
Gilbert, C. W., M.A. Jes.  
Carmichael, H., Ph.D. Joh.  
Shire, E. S., M.A. King's.

*Physiology*, v. also *Agric.*

Adrian, E. D., M.A., M.D. Trin.  
Prof.  
Winton, F. R., M.D. Cla. Reader.  
Millikan, G. A., Ph.D. Trin.  
Lectr.  
Roughton, F. J. W., M.A., Ph.D.  
Trin.

(Physico - chemical As-  
pects of P.) Lectr.  
Rushton, W. A. H., M.A., Ph.D.  
Pemb. Lectr.  
Tunncliffe, H. E., M.A. Cai. Lectr.  
Willmer, E. N., M.A. Cla. Lectr.  
Hodgkin, A. Ll., B.A. Trin. Demr.  
Adair, G. S., M.A. King's  
Asst. Dir. Physiol. Res.  
Matthews, B. H. C., M.A. King's  
Asst. Dir. Physiol. Res.

*Political Economy*, v. *Econ.**Political Science*

Barker, E., LL.D. Edin. and Harv.,  
Litt.D. Pet. Prof.

*Portuguese*, v. *Spanish**Psychology, Exper.*, v. also *infra*  
*Med.*—*Psychopathol.*

Bartlett, F. C., M.A. Joh., F.R.S.  
(Dir. of the Psych. Lab.) Prof.  
Banister, H., Ph.D. Joh. Lectr.  
Grindley, G. C., M.A., B.Sc. Brist.  
(to 30.9.38) Lectr.

*Psychology, Industrial*

Farmer, E., M.A. Trin. Reader.  
Chambers, E. G., M.A. Cla.  
Asst. Dir. of Research.

*Romance*

[Reader  
Braunholtz, E. G. W., M.A. King's

*Sanskrit*, v. *Oriental Langs.**Scandinavian Studies*

Downs, B. W., M.A. Chr.  
Director.

*Faculty Asst. Lectr. :*

Tennant, P. F. D., M.A. Qu. (to  
30.9.38).

*Slavonic*

Hill, Evelyn M., Ph.D. Lond.  
Lectr.

*Spanish*

Trend, J. B., M.A. Chr. Prof.  
Jiménez, A., M.A., King's Lectr.  
Muñoz-Rojas, J. A., Pet. Lectr.  
Barker, J. W., M.A., Ph.D. Down.  
(and Portuguese) Lectr.  
Bullock, T. W. I., M.A. Qu. Lectr.  
Grave, W. W., M.A., Ph.D. Emm.  
Lectr.

*Faculty Asst. Lectr. :*

Wilson, E. M., M.A., Ph.D. Trin.  
(to 30.9.38).

*Statistics*

Wishart, J., M.A. Cla. and Edin.,  
D.Sc. Lond. Reader.  
Clark, C. G., M.A. Cai. Lectr.

*Stereochemistry*, v. Chemistry*Theology*, v. Divinity*Zoology*, v. also Animal Path.,  
Entom., Med. Entom.

Gray, J., M.A., Sc.D. King's,  
F.R.S. Prof.

Pantin, C. F. A., M.A., Sc.D.  
Trin. F.R.S. (Invertebrate  
Z.) Reader.

Ramsay, J. A., M.A., Ph.D. Qu.  
Harding Lectr.

## Lecturers :

Carter, G. S., M.A., Ph.D. Corp.  
Parrington, F. R., M.A. Sid.  
Salt, G., Ph.D. King's.  
Waddington, C. H., M.A. Chr.

## Demonstrators :

Harris, J. E., M.A., Ph.D. Chr. (to  
31.12.38).  
Lochhead, J. H., B.A., Ph.D. Chr.  
Gilson, H. C., M.A. Trin.  
Hollck, F. S. J., M.A., Ph.D. Joh.  
Pringle, J. W. S., B.A. King's.  
Smith, S., M.A., Ph.D. Cath.

**Agriculture**

## v. also Biology

Engledow, F. L., C.M.G., M.A. Joh.  
Drapers Prof.

## Lecturers :

Garner, F. H., M.A. Cla.  
Line, J., M.A. Emm.  
Mansfield, W. S., M.A. Emm.  
Sanders, H. G., M.A., Ph. D. Joh.

*Agric. Biology* [Lectr.

Watkins, A. E., M.A. Joh. (Cytol.)  
Dickinson, S., M.Sc. Wales, Ph.D.  
Minnesota, M.A. Emm.  
(Mycol.) Lectr.  
Bell, G. D. H., Ph.D. Selw. Demr.

*Agric. Chemistry*

## Lecturers :

Nicholson, H. H., M.A. Selw.  
Woodman, H. E., M.A. Down.

*Agric. Econ. and History*

Venn, J. A., Litt.D. Qu.  
Gilbey Lectr.

*Agric. Engineering*

Culpin, C., M.A. Joh. (to 30.9.38)  
Demr.

*Agric. Physiology*

Marshall, F. H. A., C.B.E., Sc.D.  
Chr., F.R.S. Reader.

*Animal Pathology*

Dalling, T., M.A., M.R.C.V.S. Prof.

*Estate Management*

Dean, N., M.A. Trin. H. (to  
30.9.38) Lectr.

*Forestry*

Thompson, C. H., M.A. Qu.  
Gurney Lectr.

*Soil Science*

Childs, E. C., Ph.D. Cla. Demr.

**Engineering**

## Lecturers :

Angus, R. H., M.A. Sid. (from  
1.10.38)  
Browne, A. D., M.A. Qu.  
Davenport, A. H., M.A. Sid.  
Gough, G. S., M.A. Pemb.  
Hayes, R. A., M.A. Trin. H.  
Landon, J. W., M.A. Cla. (Mech. E.).  
Lubbock, R., M.A. Pet.  
Peake, A. H., M.A. Joh.  
Phear, H. W., M.A. Cai.  
Portway, D., M.A. Cath.  
Sanders, T. R. B., M.A. Corp.  
Spittle, J. T., M.A. Pemb.  
Turner, L. B., M.A. King's.  
Womersley, W. D., M.A. Emm.  
Woodward, W. E., M.A. Trin.  
Wyatt, T. C., M.A. Chr.

**Demonstrators:**

Cosens, C. R. G., M.A. King's.  
 Dykes P. de K., M.A. Trin.  
 de Bruyne, N. A., M.A., Ph.D.  
 Trin.  
 Fox, T. R. C., B.A. Jes.  
 Diamond, J., Joh.  
 Davies, R. D., M.A., Ph.D. Cai.  
 Angus, R. H., M.A. Sid. (to  
 30.9.38).

*Aeronautical Engineering*

Jones, B. M., M.A. Emm.  
 F. Mond Prof.  
 Stephens, A. V., M.A. Joh.  
 Demr.

*Mechanical Sciences*

Inglis, C. E., O.B.E., M.A. King's,  
 F.R.S. Prof.

*Thermodynamics, Applied*

Bird, A. L., M.A. Pet.  
 Hopkinson Lectr.

**Law**

Kantorowicz, H., M.A.  
 Asst. Dir. of Research.

**Lecturers:**

Ashton-Cross, D. I. C., B.L. Edin.,  
 M.A.  
 Bailey, S. J., M.A., LL.M. Joh.  
 Barnes, H., M.A., LL.B. Jes.  
 Duff, P. W., M.A. Trin.  
 Ellis Lewis, T., Ph.D. Trin. H.  
 Hamson, C. J., M.A., LL.M. Trin.  
 Jackson, R. M., M.A., LL.B. Joh.  
 King, B. E., M.A., LL.B. Pemb.  
 Turner, J. W. C., M.A., LL.B.  
 Trin. H.  
 Wade, E. C. S., M.A., LL.D. Cai.  
 Whalley-Tooker, H. C., M.A.,  
 LL.M. Down.  
 Ziegler, C. H., M.A., LL.M. Pemb.

*Law, Civil*

Buckland, W. W., LL.D. Cai.  
 Reg. Prof.

*Law, Comparative*

Gutteridge, H. C., M.A., LL.M.  
 Trin. H. Prof.

*Law, English*

Winfield, P. H., LL.D. Joh.  
 Rouse Ball Prof.  
 Hollond, H. A., D.S.O., O.B.E.,  
 M.A., LL.M. Trin. Reader.

*Law, Indian*

Campbell, A., M.A. Pemb. Lectr.

*Law, International*

Lauterpacht, H., LL.D. Lond.,  
 Dr. Jur., Dr. Sc.Pol. Vienna,  
 M.A. Whewell Prof.

*Laws of England*

Hazeltine, H. D., Litt.D. Down.  
 Downing Prof.

**Medicine**

(For subjects of the first 2 yrs.—  
 Anat., etc., v. *supra*)

*Medical Chemistry*

Cole, S. W., M.A. Trin. Lectr.

*Medical Radiology & Electrolgy*

Stead, G., M.A. Cla. (Physics as  
 applied to M.R.) Lectr.

*Mental Pathology, v. Psychopath.**Pathology*

Dean, H. R., M.D. Trin. H. Prof.  
 Spooner, E. T. C., M.A. Cla.

Lectr.  
 Williamson, R., M.A. Cla. Lectr.

**Demrs.:**

Elliott, S. D. M.B., B.S. Lond.,  
 M.A. Cath.  
 Greaves, R. I. N., M.A., M.B., B.Ch.  
 Cai.  
 McCullagh, G. P., M.D. Belf.,  
 M.A. Qu. (to 30.9.38).

*Pathology, Special*

Drury, A. N., M.D. Trin H, F.R.S.  
Huddersfield Lectr.

*Pharmacology*

Verney, E. B., M.A., M.B., B.Ch.  
Down, F.R.C.P., M.R.C.S.,  
F.R.S. Sheild Reader.  
Myers, G. N., Ph.D. Sid. Demr.

*Physic*

Ryle, J. A., M.D. Lond. and Cai,  
F.R.C.P. Reg Prof.  
Drury, A. N., M.D. Cai., F.R.S.  
(Assessor to Reg. Prof.  
Physic).  
Brock, J. F., M.A. Trin H  
Asst Dir of Research

*Preventive Medicine*

Graham-Smith, G. S., M.D. Pemb  
Reader.

*Psychopathology*

MacCurdy, J. T., Sc.D. Corp.  
Lectr.

*Surgery*

Rodenck, H. B., O.B.E., M.D.,  
M.Chir. Emm. Lectr.

## Oriental Languages

*Arabic*

Storey, C. A., M.A. Trin.  
Sir T. Adams's Prof.

*Aramaic*

Goodman, A. E., M.A. Cai. Lectr.

*Assyriology*

Winckworth, C. P. T., M.A. Chr.  
Eric Yarrow Lectr.

*Bengali*

Drummond, J. G., M.A. Chr. (to  
30.9.38) Lectr.

*Burmese*

Furnivall, J. S., M.A. Trin. H. (to  
30.9.38) Lectr.

*Chinese Language and History*

Moule, Rev. A. C., Litt.D. Trin (to  
30.9.38) Prof.

*Hebrew*

Cook, S. A., M.A., Litt.D. Cai. (to  
30.9.38) Reg. Prof.  
Thomas, D. W., M.A. Ox. (from  
1.10.38)

*Hindi and Marathi*

Harrison, Lt.-Col. H., M.A. Cai.  
(to 30.9.38) Lectr.

*Persian*

[Lectr.  
Levy, R., M.A., Litt.D. Chr.

*Rabbinics*

Loewe, H. M. J., M.A. Qu. Reader.

*Sanskrit*

Bailey, H. W., D.Phil. Ox., M.A.  
Qu. Prof.  
Rouse, W. H. D., Litt.D. Chr.  
(S. and Pali) Lectr.

*Tamil and Telugu*

Krishnamma, J. R., M.A. Emm.  
(to 30.9.38) Lectr.

*Urdu*

[Lectr.  
Grey, Lt.-Col. W. G., M.A. Cai.

Frazer Lecturer (Social Anthro-  
pology—in rotation with Ox-  
ford, Glasgow, Liverpool)  
1937-38—(at Oxford)  
1938-39—Prof. A. R. Radcliffe-  
Brown, M.A. (Oxford Univ.)

Hulsean Lecturer (Christian Theol.)  
1936-38—J. Burnaby, M.A. Trin.  
(to 24.6.38).

## Leslie Stephen Lecturer

1939—.....

## Marshall Lecturer

1937-38—R. G. Hawtrey, B.A.

## Rede Lecturer

1938—Sir Patrick P. Laidlaw,  
M.A. Joh., F.R.C.P., F.R.S.  
(Nat. Inst. for Med. Research)

## Rouse Ball Lecturer (Maths.)

1937-38—Prof. E. Cartan (Univ.  
of Paris).

## Sandars Reader (Bibliography)

1938—Prof. C. J. Sisson, M.A.,  
D. ès L., F.B.A. (Univ. Coll.,  
London)

## Scott Lecturer (Physics)

1938-39—Prof. M. Seigbahn,  
D.Phil., N.L. (Uppsala Univ.).

## Stanton Lecturer (Philos. of Religion)

1937-40—Rev. H. H. Farmer,  
M.A. Pet. (to 30.9.40).

## Hulsean Preacher

1937-38—Rev. C. D. Waddams,  
M.A. Cath.

## Lady Margaret's Preacher

1937—Rev. G. A. Chase, M.A.  
Selw.

## University Extension

Stipendiary Lectrs., apptd. by B.  
of Extra-mural Studies: P. L.  
Babington, M.A., LL.B. Joh.,  
(Jas. Stuart Lectr.), W. P.  
Baker, M.A. Jes., F. Lee, H.  
Plaskitt, M.A. Jes., H. H.  
Daisley, M.A. Chr.

## THE COLLEGES

CHRIST'S COLLEGE. Founded 1505. Master—C. G. Darwin, M.C., M.A.,  
Sc.D., F.R.S. Fellows:

McLean, N., D.Litt. Ox., LL.D. Edin.,  
M.A., F.B.A.

Rackham, H., M.A., *Lectr. (Classics)*.

Haddon, A. C., M.A., Sc.D., F.R.S.

Campbell, S. G., M.A., *Lectr., U. Lectr.*  
(*Classics—Epigr. and Dialects*),  
*Bursar*.

Marshall, F. H. A., C.B.E., M.A., Sc.D.,  
F.R.S., *Dean, Reader (Agric.*  
*Physiol.)*.

Saunders, J. T., M.A., *Sec. Genl. of the*  
*Faculties*.

Downs, B. W., M.A., *Tutor, Lectr.*  
(*Mod. and Med. Langs. and Engl.*),  
*Dir. Scandinavian Studies, U.*  
*Lectr. (English)*.

Grose, S. W., M.A., *Senr. Tutor,*  
*Lectr. (English), Librarian, Præ-*  
*lector*.

Wyatt, T. C., O.B.E., M.A., *Lectr., U.*  
*Lectr. (Engin.), Bursar*.

Steen, S. W. P., M.A., *Lectr., U. Lectr.*  
(*Maths.*).

Steel, A. B., B.A. Ox., M.A., *Lectr., U.*  
*Lectr. (Hist.), Steward*.

Peck, A. L., M.A., Ph.D., *U. Lectr.*  
(*Classics*).

Rose, J. Holland, M.A., Litt.D., F.B.A.  
Rastall, R. H., M.A., Sc.D., F.G.S.,  
*Lectr., U. Lectr. (Mineral. and*  
*Petrol.)*.

Snow, C. P., Ph.D., *Tutor*.

Raven, Rev. C. E., M.A., D.D.,  
*Regius Prof. (Divinity)*.

Trend, J. B., M.A., *Prof. (Spanish)*.

Waddington, C. H., M.A., *U. Lectr.*  
(*Zool.*).

Burrow, T., M.A., Ph.D.

Booker, H. G., B.A., Ph.D.

Allberry, C. R. C., M.A.

Hope-Jones, A., M.A.

Davies, R. D., M.A., Ph.D., *U. Demr.*  
(*Engin.*).

CLARE COLLEGE. Founded 1326.  
D. C. L. Durh., M.A. Fellows:

Chadwick, H. M., D.Litt. Durh.,  
LL.D. St. And., M.A., F.B.A.,

Master—G. H. A. Wilson, O.B.E.,

*Elrington and Bosworth Prof.*  
(*Anglo-Saxon*).



Thirkill, H., M.C., M.A., *President, Tutor and Lectr. (Phys. and Chem.)*.  
 Harrison, W. J., M.B.E., M.A., *Bursar, Financial Tutor*.  
 Landon, J. W., M.B.E., M.A., *Lectr., U. Lectr. (Mech. Engin.)*.  
 Telfer, Rev. W., M.C., M.A., D.D., *Dean, U. Lectr. (Divinity)*.  
 Godwin, H., M.A., Ph.D., *U. Lectr. (Bot.)*.  
 Spooner, E. T. C., M.A., *U. Lectr. (Pathol.), Librarian*.

Hammond, N. G. L., M.A., *U. Lectr. (Classics)*.  
 Jones, O. T., D.Sc. Wales, M.A., F.R.S., *Woodwardian Prof. (Geol.)*.  
 Taylor, H. McC., M.A., Ph.D., *U. Lectr. (Maths.), Steward*.  
 Boyd, J. D., M.A., *U. Lectr. (Anat.)*.  
 Hutton, R. S., D.Sc. Manc., M.A., *Goldsmiths' Prof. (Metallurgy)*.  
 Willmer, E. N., M.A., *U. Lectr. (Physiol.)*.  
 Balme, D. M., B.A., *Research Fellow*.  
 Barrer, R. M., Ph.D., *Research Fellow*.  
 Reddaway, W. B., B.A.

CORPUS CHRISTI COLLEGE. Founded 1352. Master—Will Spens, C.B.E., LL.D. Columbia, M.A., Chev. Lég. d'H. Fellows :

Pollock, Rev. C. A. E., M.A.  
 Pickthorn, K. W. M., M.A., Litt.D., M.P., *Lectr., U. Lectr. (Hist.)*.  
 Morris, G. G., M.A.  
 Clark-Kennedy, A. E., M.A., M.D., F.R.C.P., *Lectr. (Med.)*.  
 Sanders, T. R. B., M.A., *Lectr., U. Lectr. (Engin.), Estates Bursar*.  
 MacCurdy, J. T., M.D. Johns H., M.A., Sc.D., *U. Lectr. (Psychopathol.)*.  
 Charvet, P. E., M.A., *Lectr. (Mod. Langs.), U. Lectr. (French), Domestic Bursar*.  
 Carter, G. S., M.A., Ph.D., *Lectr. (Nat. Sci.), Prælector*.  
 Lennard-Jones, J. E., D.Sc. Vict.,

Ph.D., F.R.S., J. H. *Plummer Prof. (Chem., Theoretical)*.  
 Lee, H. D. P., M.A., *Lectr. (Classics), Tutor*.  
 Bury, J. P. T., M.A., *Lectr. (Hist.), Dean of College*.  
 Dykes-Bower, J., M.A., Mus.B.  
 Strachan, C., M.A. Aberd. and Camb., Ph.D.  
 Vincent, E. R. P., M.A. Ox. and Camb., D.Phil. Ox., *Prof. of Italian*.  
 Langdon-Brown, Sir Walter, M.D., F.R.C.P., *Emer. Prof. of Physic*.  
 Smyth, Rev. C. H. E., M.A., *Dean of Chapel*.  
 Davey, Rev. F. N., M.A., *Lectr. (Theol.)*.

DOWNING COLLEGE. Founded 1800. Master—Admiral Sir Herbert W. Richmond, K.C.B., M.A., F.B.A. Downing Prof. of Laws of England : H. D. Hazeltine, LL.B. Harv., D.Jur. Berl., M.A., Litt.D., F.B.A. Fellows :

Berry, A. J., M.A., *U. Lectr. (Chem.), Prælector*.  
 Thomas, H. H., M.B.E., M.A., Sc.D., F.R.S., *Reader (Plant Morphol.)*.  
 Whalley-Tooker, H. C., M.A. Ox. and Camb., LL.M., *Senior Tutor, U. Lectr. (Law)*.  
 Holmes, E. G., M.A., M.D., *Tutor, U. Lectr. (Biochem.)*.  
 Cuttle, W. L., M.A., *Tutor, Dean and Librarian*.

Cockerell, Sir Sydney C., M.A., Litt.D.  
 Grantham, J., M.A., *Bursar and Steward*.  
 Verney, E. B., M.A., M.B., B.Ch., F.R.C.P., F.R.S., *Sheild Reader (Pharmacol.)*.  
 Hammond, J., D.Sc. Iowa, M.A., F.R.S.  
 Leavis, F. R., Ph.D. *U. Lectr. (English)*.  
 Cox, R. G., B.A., *Research Fellow*.

EMMANUEL COLLEGE. Founded 1584. Master—T. S. Hele, O.B.E., M.A., M.D. Fellows :

Bennett, G. T., M.A., Sc.D., F.R.S.  
 Whitney, Rev. J. P., M.A., D.D.,  
*Dixie Prof. (Eccles. Hist.).*  
 Head, Most Rev. F. W., M.C., M.A.,  
 B.D.  
 Wood, P. W., M.A., *Lectr., U. Lectr.*  
*(Maths.), Senior Tutor.*  
 Wood, A., M.A., *Lectr., U. Lectr.*  
*(Physics), Tutor.*  
 Greenwood, L. H. G., M.A., *Lectr., U.*  
*Lectr. (Classics).*  
 Wright, G. J. Hornsby, D.S.O., M.A.,  
*College Secretary.*  
 Brooks, F. T., M.A., F.R.S., *Prof.*  
*(Bot.).*  
 Jones, B. M., A.F.C., M.A., *Francis*  
*Mond Prof. (Aeronaut. Engin.).*  
 Gardner, R., M.C., M.A., *Bursar.*  
 Burnaby, Rev. H., M.A., *Dean, Lectr.*  
*(Div.).*  
 Wallace, J. C., M.C., M.A.

Welbourne, E., M.C., M.A., *Tutor,*  
*Lectr. (Hist.), Prælector.*  
 Line, J., A.F.C., M.A., *Lectr. (Agric.*  
*and Bot.), Steward.*  
 Carslaw, H. S., LL.D. Glas., M.A.,  
 Sc.D.  
 Bennett, H. S., M.A., *U. Lectr. (Eng-*  
*lish), Librarian.*  
 Tilley, C. E., Ph.D., *Prof. (Mineral*  
*and Petrol.).*  
 Norrish, R. G. W., Ph.D., Sc.D.,  
 F.R.S., *Prof. (Phys. Chem.).*  
 Grave, W. W., M.A., Ph.D., *Tutor,*  
*Lectr. (Mod. Langs.).*  
 Mansfield, W. S., M.A.

*Research Fellows :*

Ward, A. J., B.A., Ph.D.  
 Parkinson, C. N., M.A.  
 Dollar, A. T. J., Ph.D.  
 Offer, H. S., B.A.

GONVILLE AND CAIUS COLLEGE. Founded 1348. Master—J. F. Cameron, M.A. Fellows :

Buckland, W. W., D.C.L. Ox., LL.D.  
 Edin., Harv., Paris, Louvain,  
 Lyon, M.A., LL.D., F.B.A., *Pre-*  
*sident, Regius Prof. (Civil Law).*  
 Gardiner, J. S., M.A., F.R.S.  
 Punnett, R. C., M.A., F.R.S., *Balfour*  
*Prof. (Genetics).*  
 Stratton, F. J. M., D.S.O., O.B.E.,  
 M.A., *Prof. (Astrophysics).*  
 Brooke, Z. N., M.A., Litt.D., *Librarian.*  
 McNair, A. D., C.B.E., M.A., LL.D.  
 Phear, H. W., M.A., *Prælector, U.*  
*Lectr. (Engin.).*  
 Debenham, F., O.B.E., M.A., *Prof.*  
*(Geog.).*  
 Cook, S. A., D.D. Aberd., M.A., Litt.D.,  
 F.B.A., *Regius Prof. (Hebrew).*  
 Bennett, E. K., M.A., *U. Lectr. (Ger-*  
*man), Senior Tutor.*  
 Tunnicliffe, H. E., M.A., *U. Lectr.*  
*(Physiol.), Tutor.*  
 Needham, N. J. T. M., M.A., Ph.D.,  
 Sc.D., *Reader (Biochem.).*  
 Oakeshott, M. J., M.A., *U. Lectr.*  
*(Hist.).*

Deas, H. T., M.A., *U. Lectr. (Classics),*  
*Tutor.*  
 Heywood, Rev. H. C. L., M.A., *Dean.*  
 Weller, E. P., M.A., *Bursar and*  
*Steward.*  
 Bowden, F. P., Ph.D., *U. Lectr.*  
*(Chem., Phys.).*  
 Powell, F. C., M.A., Ph.D.  
 Wade, E. C. S., M.A., LL.D., *U. Lectr.*  
*(Law), Tutor, Registry.*  
 Griffith, G. T., M.A., *Fac. Asst. Lectr.*  
*(Classics).*  
 Hulme, H. R., M.A., Ph.D.  
 Parker, A. A., M.A.  
 Lewis, W. B., M.A., Ph.D., *U. Lectr.*  
*(Physics).*  
 Hicks, J. R., D.Sc. Lond., M.A. Ox.  
 and Camb., B.Litt. Ox., *U. Lectr.*  
*(Econ.).*  
 Greaves, R. I. N., M.A., M.B., B.Ch.,  
*U. Demr. (Pathol.).*  
 Grierson, P., M.A.  
 Skemp, J. B., M.A.  
 Chapman, V. J., M.A., Ph.D.  
 Ryle, J. A., M.A., M.D., F.R.C.P.,  
*Regius Prof. (Physics).*

JESUS COLLEGE. Founded 1496. Master—A. Gray, M.A. Fellows :

Foakes-Jackson, Rev. F. J., M.A., D.D.  
Abbott, E., M.A.

Duckworth, W. L. H., M.A., M.D.,  
Sc.D., *President, Bursar, Steward,*  
*Reader (Human Anat.).*

Elliott, C. A., M.A.

Mills, W. H., Sc.D. Tübingen, M.A.,  
F.R.S., *Lectr. (Nat. Sci.), Reader*  
*(Stereochem.).*

Quiller-Couch, Sir Arthur T., M.A.,  
*King Edw. VII. Prof. (Engl. Lit.).*

Manning, B. L., M.A., *Snr. Tutor,*  
*Lectr. (Hist.)*

Pars, L. A., M.A., *Lectr. (Maths.),*  
*Prælector.*

Barnes, H., M.A., LL.B., *Lectr. (Law).*

Gardner-Smith, Rev. P., M.A., B.D.,  
*Lectr. (Theol.), Dean.*

Sinker, A. P., M.A., *Tutor, Lectr., U.*  
*Lectr. (Classics).*

Thorpe, W. H., M.A., Ph.D., *Tutor.*

Tillyard, E. M. W., O.B.E., M.A.,  
*Litt.D., Lectr. (English).*

Gittings, R. W. V., M.A.

Gilbert, C. W., M.A., Ph.D.

Green, A. E., B.A., Ph.D.

Guy, O. V., D.S.O., M.C., M.A., *Sec.,*  
*U. Appointments Board.*

Dodd, Rev. C. H., M.A. Ox., Manc.,  
Camb., D.D. Aberd., *Norris-*  
*Hulse Prof. (Div.).*

Brittain, F., M.A., *Lectr. (Mod. and*  
*Mediæval Langs.), Librarian.*

KING'S COLLEGE. Founded 1441. Provost—J. T. Sheppard, M.B.E.,  
M.A., Brereton Reader in Classics. Fellows :

Tilley, A. A., Litt.D. Manc.,  
M.A.

Richmond, H. W., LL.D. St. And.,  
M.A., F.R.S.

Wedd, N., M.A.

Brooke, A. E., M.A., D.D., F.B.A.

Reddaway, W. F., M.A.

Sills, H. H., M.A., *Lectr., U. Lectr.*  
*Classics).*

Barcroft, Sir Joseph, C.B.E., D.Sc.  
Belf., Harv., M.A., F.R.S.

Inglis, G. E., O.B.E., LL.D. Edin.,  
M.A., F.R.S., *Prof. (Mechanical*  
*Sciences).*

Pigou, A. C., M.A., F.B.A., *Prof.*  
*(Polit. Econ.).*

Clapham, J. H., C.B.E., Litt.D. Leeds,  
Harv., M.A., Litt.D., F.B.A.,  
*Vice-Provost, Prof. (Econ. Hist.).*

Keynes, J. M., C.B., LL.D. Colombia,  
M.A., F.B.A., *Lectr. (Econ.),*  
*Bursar.*

Adcock, F. E., O.B.E., D.Litt. Durh.,  
M.A., F.B.A., *Prof. (Anc. Hist.).*

Gray, J., M.C., M.A., Sc.D., F.R.S.,  
*Prof. (Zool.).*

Milner-White, Rev. E., D.S.O., M.A.,  
*Dean and Chaplain.*

McCombie, H., D.S.O., M.C., M.A.  
Camb. and Aberd., *Lectr. (Nat.*  
*Sci.), U. Lectr. (Chem.).*

Turner, L. B., M.A., *Lectr. (Mech.*  
*Sci.), U. Lectr. (Engin.).*

Durnford, H. G. E., M.C., M.A.

Lucas, F. L., M.A., *Lectr., U. Lectr.*  
*(English).*

Ord, B., Mus.B., M.A., F.R.C.O.,  
*Organist.*

Scholfield, A. F., M.A., *U. Librarian.*

Beves, D. H., M.A., *Lectr. (Mod.*  
*Langs.), U. Lectr. (French), Tutor.*

Braithwaite, R. B., M.A., *Sidgwick*

*Lectr. (Moral Philos.).*

Shove, G. F., M.A., *Lectr., Girlders'*  
*Lectr. (Econ.).*

Stockdale, D., Ph.D., M.A., *U. Lectr.*  
*(Chem.).*

Dent, E. J., D.Mus. Ox., M.A.,  
Mus.B., F.R.C.M., *Prof. (Music).*

Hall, P., M.A., *Lectr., U. Lectr.*  
*(Maths.).*

Rylands, G. H. W., M.A., *Steward.*

Balfour, R. E., M.A., *Lectr., U. Lectr.*  
*(Hist.).*

Matthews, B. H. C., M.A., Sc.D.,  
*Lectr. (Nat. Sci.), Asst. Dir.,*  
*Physiol. Res.*

Lucas, D. W., M.A., *Lectr., U. Lectr.*  
*(Classics).*

Ingham, A. E., M.A., *Lectr., U. Lectr.*  
*(Maths.).*

Kahn, R. F., M.A., *U. Lectr. (Econ.),*  
*Bursar.*

- Morris, G. C., M.A., *Lectr.*, U. *Lectr.* (*Hist.*).  
 Saltmarsh, J., M.A., F.S.A., *Lectr.*, U. *Lectr.* (*Hist.*), *Librarian*.  
 Wilkinson, L. P., M.A., *Dean*, *Lectr.* (*Classics*).  
 Darby, H. C., M.A., Ph.D., U. *Lectr.* (*Geog.*).  
 Salt, G., B.Sc. Alberta, Sc.D. Harv., Ph.D., *Stringer Fellow*.  
 Watson, A. G. D., M.A.
- Shure, E. S., M.A., *Bursar*, *Prælector*.  
 Tucker, G. M., M.A.  
 Clarke, M. L., M.A.  
 Thomson, G. D., M.A.  
 Turing, A. M., B.A.  
 Howarth, L., B.A., Ph.D.  
 Purdie, D., M.A., Ph.D.  
 Milburn, A. R., B.A.  
 Dixon, K. C., M.A.  
 Clayton, F. W., B.A.  
 Champenowne, D. G., B.A.

MAGDALENE COLLEGE. Founded 1542. Master—A. B. Ramsay, M.A.  
 Fellows:

- Ramsey, A. S., M.A.  
 Vernon Jones, V. S., M.A., *President*, *Lectr.*, U. *Lectr.* (*Classics*), *Tutor*, *Prælector*.  
 Peel, T., M.A., *Lectr.*, U. *Lectr.* (*Engin.*).  
 Gaselee, Sir Stephen, K.C.M.G., C.B.E., Litt.D. Liv., M.A.  
 Salter, F. R., M.A., *Lectr.*, U. *Lectr.* (*Hist.*), *Tutor*.  
 Morshead, O. F., C.V.O., D.S.O., M.C., C.G., M.A.  
 King, W. B. R., O.B.E., M.A., Sc.D.  
 Clark, Rev. F. H. H., M.A., *Lectr.* (*Hist.*), *Dean and Chaplain*.
- Richards, I. A., M.A., Litt.D., *Lectr.* (*Moral Sci.*), U. *Lectr.* (*English*).  
 Turner, F. McD. C., M.C., D.F.C., M.A., *Lectr.* (*Hist.*), *Coll. and Pepysian Librarian*.  
 Scott, F. R. F., M.A., *Lectr.* (*Classics*), *Tutor*.  
 Keilin, D., M.A., F.R.S., *Quick Prof.* (*Biol.*).  
 Babbage, D. W., M.A., Ph.D., *Lectr.*, U. *Lectr.* (*Maths.*).  
 Green, F. C., M.A. St. And., Th.D.  
 Cologne, D. de l'U. Paris, M.A., *Drapers' Prof.* (*French*).  
 Pope, J. A., C.I.E., *Bursar and Steward*.

PEMBROKE COLLEGE. Founded 1347. Master—Sir Montagu S. D. Butler, K.C.S.I., C.B., C.I.E., C.V.O., C.B.E., M.A. Fellows:

- Whibley, L., M.A.  
 Bethune-Baker, Rev. J. F., M.A., D.D., F.B.A.  
 Minns, E. H., M.A., Litt.D., F.B.A., *President*, *Disney Prof.* (*Archæol.*)  
 Pennell, V. C., M.A., M.B., B.Chir., F.R.C.S., *Asst. Tutor*, *Lectr.* (*Biol. Med.*).  
 Spittle, J. T., O.B.E., M.A., *Lectr.* (*Mech. Sci.*), *Asst. Tutor*, U. *Lectr.* (*Eng.*).  
 Wynn, Rev. H. E., C.G., M.A., *Tutor*, *Lectr.* (*Hist.*), and *Chaplain*.  
 King, B. E., M.A., LL.B., *Asst. Tutor*, U. *Lectr.* (*Law*), *Tutorial Bursar*.  
 Roberts, S. C., M.A.  
 Camps, W. A., M.A., *Lectr.* (*Classics*), *Librarian*.
- Rowe, J. W. F., M.C., M.Sc. Lond., M.A., *Asst. Tutor*, *Lectr.*, U. *Lectr.* (*Econ.*).  
 Wace, A. J. B., LL.D. Liv., M.A., *Laurence Prof.* (*Classical Archæol.*).  
 Hodge, W. V. D., M.A., *Lowndean Prof.* (*Astron. and Geom.*).  
 Sutherland, G. B. B. McI., Ph.D., *Lectr.* (*Physics*).  
 Willey, B., M.A., *Lectr.*, U. *Lectr.* (*English*), *Prælector*.  
 Pascal, R., M.A., *Lectr.* (*Mod. Langs.*), U. *Lectr.* (*German*).  
 Dewey, Rev. M. B., M.A., *Dean*.
- Other Lectrs.:
- Vulliamy, E. O., M.A. (*Mod. Langs.*).  
 Ziegler, C. H., M.A., LL.M. (*Law*).

PETERHOUSE. Founded 1284. Master—Baron Birdwood of Anzac and Totnes, G.C.B., G.C.S.I., G.C.M.G., G.C.V.O., D.C.L. Durh., LL.D. Bristol, Melb., Syd., M.A., LL.D. Fellows :

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| Temperley, H. W. V., O.B.E., D.Litt. Durh., M.A., Litt.D., F.B.A., <i>Prof. (Mod. Hist.)</i> . | Burkill, J. C., M.A., <i>Tutor, Lectr., U. Lectr. (Maths.)</i> .     |
| Lubbock, R., M.A., <i>Tutor, Lectr., U. Lectr. (Mech. Sciences), Steward</i> .                 | Sams, Sir Hubert A., C.I.E., M.A., <i>Bursar</i> .                   |
| Butterfield, H., M.A., <i>Lectr., U. Lectr. (Hist.), Librarian</i> .                           | Guthrie, W. K. C., M.A., <i>Lectr., U. Lectr. (Classics)</i> .       |
| Hallward, B. L., M.A., <i>Tutor, Lectr., U. Lectr. (Classics), Prælector</i> .                 | Heard, Rev. R. G., M.A., <i>Dean and Chaplain</i> .                  |
| Barker, E., LL.D. Edin. and Harv., Litt.D., <i>Prof. (Polit. Sci.)</i> .                       | Postan, M. M., M.Sc. Lond., M.A., <i>Lectr., U. Lectr. (Hist.)</i> . |

QUEENS' COLLEGE. Founded 1448. President—J. A. Venn, M.A., Litt.D. Gilbey Lecturer in Agriculture. Fellows :

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|---|--|
| Wood, Rev. C. T., M.A., B.D., <i>Lectr. (Div., Hebrew), Dean, Chaplain</i> .                                | Maxwell, E. A., M.A., Ph.D., <i>Lectr. (Maths.), Jr. Bursar</i> .          |
| Cook, A. B., M.A., Litt.D., <i>Vice-President, Lectr. (Classics), Emeritus Prof. (Classical Archæol.)</i> . | Seltman, C. T., M.A., <i>Librarian</i> .                                   |
| Laffan, R. G. D., M.A. Ox. and Camb., <i>Lectr., U. Lectr. (Hist.), Sr. Bursar</i> .                        | Tennant, P. F. D., M.A., <i>Lectr. (Mod. Langs.), Prælector</i> .          |
| Sleeman, C. M., M.A., <i>Lectr. (Nat. Sci.)</i> .   | Ramsay, J. A., M.A., Ph.D., <i>Lectr. (Nat. Sci.), U. Lectr. (Zool.)</i> . |
| Browne, A. D., M.A., <i>Lectr. (Mech. Sci.), Tutor</i> .  | Hart, H. St. J., B.A., <i>Research Fellow</i> .                            |
| Potts, L. J., M.A., <i>Tutor, Lectr., U. Lectr. (English)</i> .   | Bailey, H. W., M.A. Ox. and Camb., <i>Prof. (Sanskrit)</i> .               |
|   | McCullagh, G. P., M.D. Belf., M.A., <i>U. Demr. (Pathol.)</i> .            |

ST. CATHARINE'S COLLEGE. Founded 1473. Master—Rev. H. J. Chaytor, M.A., Litt.D.

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| Jones, W. H. S., M.A., Litt.D., <i>President, Lectr., U. Lectr. (Classics)</i> .   | Waddams, Rev. C. D., M.A., <i>Lectr. (Maths.), Librarian, Chaplain and Prælector</i> .           |
| Newman, L. F., M.A., <i>Lectr. (Nat. Sci., Med., Agric.), Bursar and Steward</i> . | Rich, E. E., M.A., <i>Lectr., U. Lectr. (Hist.), Jnr. Dean</i> .                                 |
| Portway, D., M.A., <i>Lectr. (Mech. Sci.), U. Lectr. (Eng.), Senr. Tutor</i> .     | Williams, R. A., Litt.D. Dub., D.Lit. Belf., Ph.D. Leip., M.A., <i>Schröder Prof. (German)</i> . |
| Withers, Sir John J., C.B.E., M.A., LL.D., M.P.                                    | Smith, S., M.A., Ph.D.   |
| Steers, J. A., M.A., <i>Asst. Tutor, Lectr., U. Lectr. (Geog.), Dean</i> .         | Hulton, J. H., M.A.  |
| Henn, T. R., M.A., <i>Asst. Tutor, Lectr., U. Lectr. (English)</i> .               |  |

ST. JOHN'S COLLEGE. Founded 1511. Master—E. A. Benians, M.A. Fellows :

- |   |  |
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| Larmor, Sir Joseph, D.Lit. Lond., LL.D. Glas., D.Sc. Ox., M.A., Sc.D., F.R.S. | Baker, H. F., LL.D. Edin., M.A., Sc.D., F.R.S. |
| Harker, A., LL.D. Edin. and Mont., M.A., F.R.S.                               | Shore, L. E., O.B.E., M.A., M.D.               |
|   | Sikes, E. E., M.A., <i>President</i> .         |

- Blackman, F. F., D.Sc. Lond., M.A., F.R.S.  
 Glover, T. R., D.D. St. And., LL.D. Qu., McM., Glas., M.A.  
 Cunningham, E., M.A.  
 Jeffreys, H., M.A., F.R.S., *Reader (Geophys.)*.  
 Rootham, C. B., M.A., Mus.D.  
 Palmer, W. G., D.Sc. Lond., M.A.  
 Bartlett, F. C., M.A., F.R.S., *Prof. (Exper. Psychol.)*.  
 Creed, Rev. Canon J. M., M.A., D.D., *Ely Prof. (Divinity)*.  
 Coulton, G. Gordon, Litt.D. Durh., M.A., Litt.D., F.B.A.  
 Engledow, F. L., C.M.G., M.A., *Drapers Prof. (Agric.)*.  
 White, F. P., M.A., *Tutorial Bursar*.  
 Wilson, J. T., LL.D., M.B., Ch.M. Edin., M.A., F.R.S.  
 Briggs, G. E., M.A., F.R.S., *Reader (Plant Physiol.)*, *Steward*.  
 Wordie, J. M., M.A., *Tutor*.  
 Winfield, P. H., LL.D. Harv. and Camb., F.B.A., *Rouse Ball Prof. (Engl. Law)*.  
 Yule, G. U., C.B.E., M.A., F.R.S.  
 Charlesworth, M. P., M.A., *Laurence Reader (Classics—Anc. Hist.)*.  
 Howard, Sir Henry F., C.S.I., K.C.I.E., M.A., *Snr. Bursar*.  
 Raven, Rev. Canon E. E., M.A., *Dean, Prælector*.  
 Newman, M. H. A., M.A.  
 Previté-Orton, C. W., M.A., Litt.D., F.B.A., *Prof. (Mediæval Hist.)*, *Librarian*.  
 Guillebaud, C. W., M.A., *Tutor*.  
 Boys Smith, Rev. J. S., M.A., *Tutor*.  
 Dirac, P. A. M., Ph.D., F.R.S., *Lucasian Prof. (Maths.)*.  
 Cockcroft, J. D., M.A., Ph.D., F.R.S., *Jnr. Bursar*.  
 Howland, R. L., M.A., *Tutor*.  
 Brindley, H. H., M.A.  
 Redman, R. O., M.A., Ph.D.  
 Gatty, H. P. W., M.A.  
 Bailey, S. J., M.A., LL.M.  
 Goldstein, S., M.A., Ph.D., F.R.S.  
 Stephens, A. V., M.A.  
 Jackson, K. H., M.A.  
 Oliphant, M. L. E., Ph.D., F.R.S.  
 Constable, W. G., M.A.  
 Dudley, D. R., M.A.  
 Hollick, F. S. J., M.A., Ph.D.  
 Baldwin, E. H. F., M.A., Ph.D.  
 Carmichael, H., Ph.D.  
 Mitchell, J. S., M.A., M.B., B.Chir., Ph.D.  
 Williams, G. Ll., M.A. Ph.D.  
 Appleton, E. V., LL.D. Aberd., D.Sc. Lond., M.A., F.R.S., *Jacksonian Prof. (Nat. Philos.)*.  
 Davies, H. S., M.A.  
 Barraclough, G., M.A. Ox. and Camb.  
 Walker, E. A., M.A. Ox., Cape and Camb., *Vere Harmsworth Prof. (Imp. & Naval Hist.)*.  
 Anderson, W. B., M.A., *Kennedy Prof. (Latin)*.  
 Harris, H. A., D.Sc., M.D. Lond., M.A., *Prof. (Anat.)*.  
 Offord, A. C., Ph.D.  
 Smithies, F., B.A.  
 Lyttleton, R. A., M.A., Ph.D.  
 Barron, D. H., Ph.D. Yale, M.A., U. Lectr. (*Anat.*).  
 Gatty, R. J., M.A., *Lectr. (Classics)*.  
 Jopson, N. B., M.A., *Prof. (Compar. Philol.)*.

SIDNEY SUSSEX COLLEGE. Founded 1596. Master—Rev. G. A. Weekes, M.A. Fellows:

- Robson, H. C., M.A.  
 Mayall, R. H. D., M.A.  
 Wilson, C. T. R., C.H., LL.D. Aberd., Sc.D. Manc., M.A., F.R.S.  
 Pope, Sir William J., K.B.E., M.A., F.R.S., *Prof. (Chem.)*.  
 Knox-Shaw, T., M.C., M.A., U. Treasurer.  
 Hackforth, R., M.A., *Lectr. U. Lectr. (Classics)*.  
 Smith, Rev. B. T. D., M.A., D.D., *Tutor, Lectr. (Theol.)*, U. Lectr. (*Div.*).  
 Passant, E. J., M.A., *Lectr. U. Lectr. (Hist.)*, *Steward*.  
 Davenport, A. H., M.C., M.A., *Bursar*.  
 Green, H. L. H. H., M.A., *Lectr. (Nat. Sci.)*.  
 Ratcliffe, J. A., M.A., *Lectr. (Nat. Sci.)*, U. Lectr. (*Physics*).

- Robinson, E. A. G., M.A., *Lectr.*, U.  
*Lectr. (Econ.)*, *Librarian*.
- Welchman, W. G., M.A., *Lectr.*  
(*Maths.*), *Prælector*, *Dean*, *Taylor*  
*Librarian*.
- Dee, P. I., M.A.
- Angus, R. H., M.A.
- Varley, G. C., M.A., *Research Fellow*.
- Thomson, D., B.A., *Research Fellow*.
- TRINITY COLLEGE. Founded 1546. Master—Sir Joseph J. Thomson, O.M., M.A., LL.D., Sc.D., D.Sc., Ph.D., F.R.S. (Prof. of Physics). Fellows :
- Kirkpatrick, Very Rev. A. F., M.A., D.D.
- Frazer, Sir James G., O.M., D.C.L. Ox., LL.D. Glas., M.A., Litt.D., F.B.A., F.R.S.
- Duff, J. D., Litt.D. Durh., M.A.
- Whitehead, A. N., D.Sc. Manc., M.A., Sc.D., F.R.S.
- Dampier, Sir William C. D., M.A., Sc.D., F.R.S.
- Innes, H. McL., M.A.
- Cornford, F. M., M.A., Litt.D., *Lawrence Prof. (Anc. Philos.)*.
- Harrison, E., LL.D. Glas., M.A., *Registrary*.
- Lapsley, G. T., Ph.D. Harv., M.A., *Reader (Const. Hist.)*.
- Winstanley, D. A., M.A., *Vice-Master*.
- Dykes, F. J., M.A.
- Eddington, Sir Arthur S., LL.D. Edin., D.Sc., M.A., F.R.S., *Plumian Prof. (Astron. and Exper. Philos.)*.
- Littlewood, J. E., LL.D. St. And., D.Sc. Liv., M.A., F.R.S., *Rouse Ball Prof. (Maths.)*.
- Newall, H. F., D.Sc. Durh., M.A., F.R.S.
- Hollond, H. A., D.S.O., O.B.E., M.A., LL.M., *Lectr. (Law)*, *Reader (Engl. Law)*.
- Robertson, D. S., M.A., *Regius Prof. (Greek)*.
- Hopkins, Sir F. Gowland, O.M., D.Sc. Lond., Leeds, Dub., Reading, M.A., Sc.D., F.R.S., *Sir W. Dunn Prof. (Biochem.)*.
- Simpson, Rev. F. A., M.A.
- Tennant, Rev. F. R., D.D. Camb. and Ox., M.A., *Lectr. (Theol.)*.
- Butler, J. R. M., M.V.O., O.B.E., M.A., *Senior Tutor*, *Lectr. (Hist.)*.
- Adrian, E. D., D.Sc. Harv., M.A., M.D., F.R.S., *Prof. (Physiol.)*.
- Fowler, R. H., M.A., F.R.S., *Plummer Prof. (Math. Physics)*.
- Robertson, D. H., Litt.D. Harv., M.A., F.B.A., *Lectr.*, *Reader (Econ.)*.
- Burnaby, J., M.A., *Tutor*.
- Stewart, Rev. H. F., M.A., D.D., *Reader (French)*.
- Taylor, G. I., M.C., M.A., F.R.S.
- Nicholas, T. C., O.B.E., M.A., *Senr. Bursar*.
- Aston, F. W., LL.D. Birm., D.Sc. Birm., Dub., M.A., Sc.D., F.R.S.
- Lenox-Conyngham, Sir Gerald P., M.A., F.R.S., *Reader (Geodesy)*.
- Kitson-Clark, G. S. R., M.A., *Lectr. (Hist.)*, *Tutor*.
- Broad, C. D., M.A., Litt.D., F.B.A., *Knightbridge Prof. (Moral Philos.)*.
- Roughton, F. J. W., M.A., Ph.D., *Lectr. (Nat. Sci.)*, *U. Lectr. (Physiol.)*.
- Dean, W. R., M.A., *Lectr. (Maths.)*.
- Moore, G. E., LL.D. St. And., M.A., Litt.D., F.B.A., *Prof. (Philos.)*.
- Gow, A. S. F., M.A., *Tutor*, *Lectr. (Classics)*.
- Duff, P. W., M.A., *Lectr. (Law)*.
- Nicholson, R. A., LL.D. Aberd., Litt.D., F.B.A.
- Rattenbury, R. M., M.A., *Lectr. (Classics)*.
- Trevelyan, G. M., O.M., LL.D. Edin., St. And., D.C.L. Ox., M.A., Litt.D., F.B.A., *Regius Prof. (Mod. Hist.)*.
- Sandbach, F. H., M.A., *Lectr. (Classics)*.
- de Bruyne, N. A., M.A., Ph.D., *Lectr. (Mech. Sci.)*.
- Pantin, C. F. A., M.A., Sc.D., F.R.S., *Lectr. (Nat. Sci.)*.
- Evennett, H. O., M.A., *Lectr. (Hist.)*.

- Knight, A. H. J., M.A., *Lectr. (Mod. Langs.)*.  
 Besicovitch, A. S., D.Sc. Lond., M.A., *Lectr. (Maths.)*.  
 Mann, F. G., D.Sc. Lond., Ph.D., Sc.D., *Lectr. (Nat. Sci.)*.  
 Hardy, G. H., M.A., F.R.S., *Sadlerian Prof. (Pure Maths.)*.  
 Runciman, Hon. J. C. S., M.A., *Lectr. (Hist.)*.  
 Wilson, A. H., M.A., *Lectr. (Maths.)*.  
 Black, M., M.A., *Lectr. (Nat. Sci.)*.  
 Hamson, C. J., M.A., LL.M., *Lectr. (Law)*.  
 Coulson, C. A., M.A., Ph.D.  
 Lea, D. E., M.A., Ph.D.  
 Heilbronn, H. A., M.A.
- Wisdom, A. J. T. D., M.A., *Lectr. (Moral Sci.)*.  
 Gilson, H. C., M.A.  
 Rothschild, Lord, Ph.D.  
 Hinks, D. A. G., M.A., *Junr. Bursar*.  
 Melville, H. W., Ph.D.  
 Feather, N., Ph.D., *Lectr. (Nat. Sci.)*.  
 Price, M. H. L., B.A.  
 Trendall, A. D., M.A.  
 Hodgkin, A. Ll., B.A.  
 Paterson, T. T.  
 Moule, Rev. A. C., Litt.D., *Prof. (Chinese Lang. and Hist.)*.  
 Gough, G. S., M.A., *Lectr. (Mech. Sci.)*.  
 Logan, D. W., M.A., B.C.L. Ox., *Lectr. (Law)*.

TRINITY HALL. Founded 1350. Master—H. R. Dean, M.D., Professor of Pathology (Vice-Chancellor). Fellows :

- Bond, H., M.A., LL.D.  
 Rendell, W. R., M.A.  
 Angus, Rev. C. F., M.A., *Vice-Master*,  
*Perceval Mailland Laurence Reader (Classics), Librarian*.  
 Hayes, R. A., M.A.  
 Oliver, D. T., M.A., LL.D. Belf., LL.M., *Librarian*.  
 Rideal, E. K., M.A., F.R.S., *J.H. Plummer Prof. (Colloid Sci.)*.  
 Crawley, C. W., M.A., *Asst. Tutor*.  
 Turner, J. W. C., M.C., M.A., *Bursar, Steward*.  
 Forster-Cooper, C., M.A., F.R.S.
- Clarke, L. C. G., M.A.  
 Gutteridge, H. C., M.A., LL.M., K.C., *Prof. (Compar. Law)*.  
 Wansbrough-Jones, O. H., M.A., Ph.D., *Tutor*.  
 Elvin, H. L., M.A.  
 Lewis, T. Ellis, Ph.D.  
 Fleming, Rev. W. L. S., M.A., *Dean and Chaplain*.  
 Drury, A. N., M.A., M.D., F.R.S., *Huddersfield Lectr. (Special Pathol.)*.  
 Heywood, F. M., M.A., *Asst. Tutor*.

SELWYN COLLEGE. Founded 1882. Master—Rev. G. A. Chase, M.C., M.A., Univ. Lecturer in Theology. Fellows :

- Jordan, W. E., M.A.  
 Borradaile, L. A., M.A., Sc.D., *Vice-Master*.  
 Williams, W. N., M.A., LL.B.  
 Marsh, Rev. F. S., M.A., *Lady Margaret's Prof. (Div.)*.  
 Perrett, G. B., M.A., *Lectr., U. Lectr. (Hist.), Bursar*.  
 Durrant, P. J., M.A., Ph.D., *Tutor, Lectr. (Nat. Sci.), Prælector*.
- Blyth, Rev. A. C., M.A., *Tutor, Lectr. (Theol.)*.  
 Murray, J. O. F., M.A., D.D.  
 Woodward, F. H., M.A., *Asst. Bursar, Lectr. (Maths.)*.  
 Phillips, C. W., M.A., *Librarian*.  
 Sartain, W. J., M.A., *Dean, Lectr. (Classics)*.  
 Walker, J. C., M.A., *Lectr. (Hist.)*.  
 Forster, L. W., B.A. *Lectr. (Mod. Langs.)*.



**FITZWILLIAM HOUSE: NON-COLLEGIATE STUDENTS.** Established 1869. Censor—W. S. Thatcher, M.C., M.A.; Asst. Censor, Bursar and Chaplain—Rev. W. Harvey, M.A.; Resident Director of Studies in Hist.—C. J. B. Gaskoin, M.A.; Director of Studies in Nat. Sci.—R. C. Evans, M.A., Ph.D.

Supervisors of Studies. *Agriculture*: R. Ede, M.A. *Biochemistry*: T. W. Birch, Ph.D. *Botany*: J. S. Turner, M.A. *Chemistry*: P. Maitland, Ph.D. *Classics*: B. F. C. Atkinson, M.A., Ph.D.; W. J. Sartain, M.A. *Economics*: L. Alston, M.A. *English*: B. Willey, M.A. *Geography*: The Censor. *Geology*: A. G. Brighton, M.A., Ph.D. *History*: C. J. B. Gaskoin, M.A.; Rev. W. Harvey, M.A. *Law*: C. H. Ziegler, M.A., LL.M. *Mathematics*: H. A. Webb, M.A. *Mechanical Sciences*: C. R. G. Cosens, M.A.; R. S. Ball, M.A. *Medical Studies*: E. G. Holmes, M.D. *Mediæval and Modern Languages*: W. W. Grave, M.A., Ph.D.; J. Grace, Ph.D.; Lilian E. Whitehouse, M.A. *Mineralogy*: R. C. Evans, M.A., Ph.D. *Moral Sciences*: A. J. T. D. Wisdom, M.A. *Physics*: G. Stead, M.A. *Theology*: supervision will be arranged after interview. *Zoology*: Sidnie M. Manton, M.A., Ph.D., Sc.D.

### WOMEN'S COLLEGES recognized by the University:

**GIRTON COLLEGE.** Founded 1869. Mistress—Miss H. M. Wodehouse, Ph.D. Birm., M.A.

Directors of Studies: K. T. B. Butler, M.A. (Mod. and Med. Langs.); H. M. Cam, M.A. (Law); M. L. Cartwright, M.A. (Maths.); Mrs. Holland, Ph.D. Columbia (Econ.); N. C. Jolliffe, M.A. (Classics); M. G. Jones, M.A. (Hist.); S. M. Manton, M.A., Sc.D. (Nat. Sci.); M. G. Lloyd Thomas, M.A. (Engl. and Philol.); H. G. Wanklyn, M.A. (Geog.).

Lectrs.: *Chem.*: L. Tomlinson, Ph.D. Ox.; *Classics*: N. C. Jolliffe, M.A.; *Econ.*: Mrs. Hollond, Ph.D. Col. *English*: M. G. Lloyd Thomas, M.A. (and Philol.); M. C. Bradbrook, M.A., Ph.D. *Hist.*: M. G. Jones, M.A.; H. M. Cam, M.A. *Maths.*: M. L. Cartwright, M.A.; Mrs. Veitch, M.A. *Mod. and Med. Langs.*: K. T. B. Butler, M.A.; H. Bibas, M.A. (French). *Nat. Science*: S. M. Manton, M.A., Sc.D.

Bursar—F. M. Smith, M.A. Junior Bursar—K. M. Robertson, M.A. Librarian—H. I. McMorran, M.A., F.L.A. Secy.—K. M. Peace, M.A. Asst. Tutor and Registrar—M. G. Duff, M.A. Registrar of the Roll—P. K. Leveson, M.A.

**NEWMHAM COLLEGE.** Founded 1871. Principal—Miss J. P. Strachey, M.A.

Tutors—E. M. Chrystal, M.A. (Sidgwick Hall); A. Milner-Barry, M.A. (Old Hall); Mrs. Palmer, M.A. (Pelle Hall); A. Robertson, M.A. (Clough Hall).

Directors of Studies: Mrs. F. C. Bartlett (Moral Sci.); E. M. Chrystal, M.A. (Theol.); A. C. Davies, M.A. (Nat. Sci.); D. A. E. Garrod, M.A. (Archæol. and Anthropol. A.); M. E. Grimshaw, M.A. (Maths.); M. Mann (Mod. Langs.); J. B. Mitchell, M.A. (Geog.); Mrs. H. E. Palmer, M.A. (Archit.); H. J. Pybus (Hist.); Mrs. E. A. G. Robinson, M.A. (Econ.); Mrs. D. Thacker, M.A. (Med.); J. Toynbee, M.A. (Classics); E. E. H. Welsford, M.A. (English).

Lectrs.: *Classics*: J. Toynbee, M.A. *Econ.*: Mrs. E. A. G. Robinson. *English*: E. E. H. Welsford, M.A., A. D. M. Hoare, Ph.D. *Geog.*: J. B. Mitchell, M.A. *Hist.*: H. J. Pybus, C. B. A. Behrens. *Maths.*: M. E. Grimshaw, M.A., M. D. Kennedy, M.A. *Mod. Langs.*: M. Mann. *Moral Sciences*: Mrs. F. C. Bartlett. *Nat. Sciences*: A. C. Davies, M.A., M. R. Brown, M.A., Ph.D. (Biol.), Asst. Lectr.

Bursar—M. D. Kennedy, M.A. Librarian—G. Woodward. Registrar of the Roll—Mrs. H. E. Palmer, M.A.

## GENERAL INFORMATION

The legislative and executive authority of the Univ. is vested in the REGENT HOUSE, which comprises those Univ. Officers, Fellows of Colls., and others, who are concerned with its teaching and administrative work. A meeting of the Regent House is called a *Congregation*.

There is a right of appeal against a decision of the Regent House, on the motion of at least one-third of its members, to the SENATE, which consists of graduates of six or seven years' standing from their first term of residence, who have taken a degree of Doctor or Master, or the degree of Bachelor of Divinity. In order to be successful an appeal must be sustained by a majority prescribed by statute. The Senate elects the Chancellor and certain other officers, confers degrees, and holds meetings for the discussion of proposals.

Changes of statute can be made by the Univ. with the approval of the Privy Council and Parliament.

Many executive duties, and the duty of sanctioning the submission of resolutions (called *Graces*) to a Congregation, are entrusted to the *Council of the Senate*, which is elected by the Regent House.

The titular presiding officer at a Congregation, and the Chairman of the Council, is the Chancellor, who is by custom a non-resident distinguished in public life. His duties are in fact performed by the Vice-Chancellor, who is a Head of a College, appointed annually, in theory by the Regent House, in practice by the Council. It is customary for the Vice-Chancellorship not to be held for more than two years in succession by one person.

There are numerous *Boards* and *Syndicates* for dealing with the various branches of University business: the most important of them are the *General Board of the Faculties*, whose duty it is to advise the Univ. as to educational policy and to supervise and co-ordinate the work of the Faculties, and the *Financial Board*, whose duty it is to supervise the finance of all spending departments.

There are twenty Faculties, a Faculty being a body of persons furthering the study of a subject or group of subjects. The organization of teaching, research, and examinations in the various subjects is in the hands of the several Faculty Boards, subject to the control of the General Board. A Faculty Board is in part composed of members elected by the Faculty. Some of the Faculties are divided into Departments, under a Head, generally a Professor, who is responsible for the management of his Department.

For an outline of the statutes which became operative in 1926, v. *Yearbook* 1932, p. 66.

The INCOME of the Univ. is derived from the endowments of specific posts, from general endowment (though to a small extent only), from the fees of students, from the statutable contributions of Colls., and from a Treasury Grant.

DISCIPLINE outside the walls of the Colls. is maintained by the Proctors.

The UNIV. TEACHING OFFICERS are the Professors, Readers, Univ. Lecturers, Univ. Demonstrators, and Asst. Directors of Research. They, as well as most of the administrative officers, are required to join the Federated Superannuation System for Univs. The retiring age is 65, but 60 (with the possibility of extension to 65) for women Univ. Lecturers.

The COLLEGES are self-governing corporate bodies distinct from the Univ., owning and managing their separate property, the incorporators being the Head and Fellows. Their powers are, however, limited by their statutes, which cannot be altered by them without notice to the Univ. and approval

by the Privy Council. The functions of the Colls. in regard to students are to provide lodging, corporate life, and personal tuition, while the function of the Univ. is to provide public instruction by means of lectures and demonstrations, examinations leading to degrees, and facilities for research. The affairs of the Colls. are, however, closely interwoven with those of the Univ. Most of the Fellows of Colls. are Univ. officers, indeed the statutes require that a certain proportion of the Fellowships of each Coll. shall be held by Univ. officers. And each Coll. is required by statute to contribute a certain fraction of its income to the funds of the Univ., the scale of contribution being graduated according to the wealth of the College.

The Colls. also maintain Fellowships for the furtherance of research, and a large number of Scholarships. The title of scholar is awarded on purely intellectual grounds, but, as at Oxford, no Coll. emolument other than an allowance for rooms is paid to an undergraduate scholar unless he satisfies the Coll. that his circumstances justify the payment.

NON-COLLEGIATE STUDENTS reside in licensed lodgings or in "Houses" recognized by the Non-Collegiate Students' Board. Such students may, by becoming members of Fitzwilliam House, obtain opportunities for taking part in communal life (dining in Hall, belonging to athletic clubs, etc.) similar to those enjoyed by members of Colleges.

WOMEN STUDENTS. Subject to the condition that the joint number of women students receiving instruction in the Univ. shall not exceed five hundred, the students of the women's Colls. (Girton and Newnham) are admitted to instruction and examinations in the Univ. and to the titles of degrees, including research degrees. Women who have received, or are qualified to receive, titles of degrees share with men graduates, under the Representation of the People Acts 1918 to 1928, the privilege of voting for the election of the two Burgesses who represent the Univ. in the House of Commons. Women are eligible for all Univ. teaching offices and for membership of Faculties and Faculty Boards, but cannot become members of the Senate or Regent House. From 1872 women were informally admitted to Tripos examns. in the Univ., and from 1881 have been formally admitted to the Previous Examn., the Tripos examns., and certain examns. in Med. and Music. They were subsequently admitted to the courses and examns. for the Diplomas in Agric., Horticulture, Forestry, Geog., and Education. In Oct. 1921 the Grace admitting them to titular degrees was passed. Under the New Statutes in Oct. 1926 women became eligible for all Univ. teaching offices, and in the following year were enabled to compete on the same footing as men for Univ. Studentships, Scholarships, and Prizes, except where specially excluded. Since 1934 they have been admitted to all courses of study alike.

ADMISSION. See Appendix I.

NON-MEMBERS OF THE UNIVERSITY. A teacher of subjects pertaining to a Faculty or Dept., or a person pursuing research upon such subjects, may be admitted to courses of instruction by the Chairman of the Faculty or the Head of the Dept., paying such fees, if any, as may be determined in each case. In some special cases the approval of the Council of the Senate is required.

A candidate for a Diploma or Certificate which is open to non-members may attend courses leading thereto, paying, in addition to the fees proper to the courses, a single fee of a guinea and a half.

Under the same conditions as to fees, other non-members may attend courses by leave of the Council of the Senate, normally not for more than two terms. Applicants, before making their arrangements to come to Cambridge, should

inform the Registry of their scholastic or academic status, subjects of study, proposed length of sojourn, and reasons for not joining the Univ. or one of the Women's Colleges.

If it is doubtful which of the preceding paragraphs is relevant, application should be made to the Registry.

**INCORPORATION.** Students who before admission as members of this Univ. have kept terms by *bona fide* residence at Ox. or Dub. (Trinity College) are, subject to certain provisos, allowed terms corresponding to those which they have so kept; a graduate of Ox. or Dub. (Trinity College) who took a degree or degrees after having duly qualified himself therefor not only by having passed the examns., etc., required, but by having kept his terms by residence in his own Univ., may be admitted on certain conditions to the same degree or degrees in Camb. Women graduates of Ox. or Dub. (Trinity College) may be admitted by incorporation to the title of the same degree or degrees in Camb.

**INTERCOLLEGIATE INDIAN STUDENTS COMMITTEE:** Secy., R. B. Whitehead, M.A., 22 Fitzwilliam St.

**TERMS.** In order that a term may be counted towards qualifying for a degree, a student must reside in Cambridge (*i.e.* within a circle of  $2\frac{1}{2}$  miles' radius from Gt. St. Mary's Church) during three-fourths of the term. Full terms begin: 1937-38—Oct. 8, Jan. 12, Apr. 19; 1938-39—Oct. 7, Jan. 16, Apr. 18; end: 1937-38—Dec. 6, Mar. 12, June 10; 1938-39—Dec. 5, Mar. 16, June 9.

**DEGREES.** B.A., M.A.; M.Litt., Litt.D.; M.Sc., Sc.D.; B.D., D.D.; LL.B., LL.M., LL.D.; M.B. and B.Chir., M.Chir., M.D.; Mus.B., Mus.M., Mus.D.; Ph.D.

**ARTS.** The qualifications for the B.A. are: (i.) 9 terms' residence; (ii.) passing or being exempted from the *Previous Examn.*; (iii.) passing the examns. for the Ordinary Degree or a Tripos examn. or examns.

Exemption from (i.) to the extent of 3 terms can be obtained by students entitled to the privileges of *affiliation* (v. App. I.).

(ii.) The *Previous Examn.* includes Latin or Greek, one other language, Maths., and English. Subject to certain provisos, natives of Asia or Africa who are not of European parentage may substitute papers in Arabic, Chinese, Sansk., or Pali for the Latin papers. For details and exemptions, see Appendix I.

(iii.) Ordinary Degree: (a) the General Examn. (which comprises a number of subjects) and a Special Examn. in one of the following subjects: Div., Engl. Lit., Econ., Law, Rural Econ., Military Studies, Psych., Physics, Chem. Or (b) the Examns. in *Agriculture* and allied subjects. Or (c) the Examns. in *Architectural Studies*. Or (d) the Examns. in *Engineering Studies*.

Certain combinations of (a), (b), (c), and (d) are allowed, and also certain combinations of parts of (a) with parts of the course for the M.B. or the Mus.B., or with parts of a Tripos course.

Honours Degree: obtained by passing in one or more of the following Triposes: Archæological and Anthropological, Classical, Economics, English, Geog., Hist., Law, Maths., Mech. Sciences, Mod. and Med. Langs., Moral Scs., Nat. Scs., Oriental Langs., Theol.

A Bachelor may be admitted Master of Arts at the end of six years from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his admission as B.A.

**DIVINITY.** A graduate proceeds to the B.D. when he is of not less than five years' standing from his first degree, either (1) by submitting an original dissertation composed by himself on some subject connected with Biblical Criticism, Exegesis, or History, or with the Nature and Grounds of Christian Belief, or with Dogmatic Theology, or with the study of other Religions in relation to the Christian Religion, or with Ecclesiastical History, Literature, or Antiquities, or with the Philosophy of Religion, or (2) by specifying his published works on one or more of these subjects. He is required to satisfy the Degree Committee, either by his dissertation, etc., or otherwise, that he possesses a competent knowledge of Christian Theology. A B.D. of 3 yrs.' standing proceeds to the D.D. by submitting published works or a printed dissertation on the same subjects as those for the B.D.

**LAW.** A student who has kept 9 terms and obtained Hons. in both parts of the Law Tripos, or Hons. in some other Tripos and subsequently Hons. in either part of the Law Tripos, is entitled to proceed to the degree of B.A. To qualify for the LL.B. it is necessary to pass the LL.B. examn. after having kept 9 terms and obtained hons. in Pt. I. or Pt. II. of the Law Tripos, or passed in either Part at the hons. standard, or taken the degree of B.A. and qualified for practice as a barrister or solicitor in England or Ireland, or as an advocate or law agent in Scotland. (For an Affiliated Student these requirements may be modified.) A LL.B. may, not less than 6 years after the end of his 1st term and not less than 2 years since his admission, ask leave to submit a dissertation on some branch of law or of the hist. or philosophy of law, and, if such dissertation is approved, he may be admitted to the Degree of LL.M. Any graduate may be admitted LL.D., not less than 8 yrs. after admission to his 1st degree, if he has published one or more original contributions, approved for the purpose, to the advancement of the science or study of Law.

**MEDICINE.** The qualifications for the M.B. and B.Chir. are: (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous Examn.* (iii.) 5 yrs.' Med. study; (iv.) passing in due order several examns. (of which one must be a Tripos examn.). Admission to certain examns. is conditnl. on proof of diligent attendance on prescribed courses of lectures and practical work. Admission to the Final M.B. is conditnl. on proof of 5 yrs.' Med. study, of which 3 yrs. must have been spent in hospl. practice, and diligent attendance on prescribed courses of instruction and practical work. A graduate of the Univ., on submission of a thesis or dissertation, may be admitted M.D. when 8 yrs. have elapsed since admission to his first degree. A candidate for the M.Chir. Degree must pass an examn. to which, if Master of Arts, he may be admitted after he has become legally qualified to practise Surgery. A candidate who is not a Master of Arts may be admitted to the examn. 2 years after completing all the requirements for the B.Chir. Degree; but 3 years must have elapsed since he was admitted B.Chir. before admission to the M.Chir. Degree. Addenbrooke's Hospl., containing over 300 beds and large out-patient depts., is available for clinics. Overseas examns. exempting from the 1st M.B. (except Part IV.): examns. for B.Sc. of Univ. of S. Africa (subject for subject); 1st yr. examn. for M.B. and Ch.B. or B.Sc. of Univ. of Cape Town or Witwatersrand; 1st examn. for med. degrees in Univ. of Adel., Melb., or Syd., or 1st examn. in Science in Univ. of Queensland, W. Aust., or Tasm.

**MUSIC.** The qualifications for the Mus.B. include (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous Examn.*; (iii.) passing an examn. in two parts whereof the first may not be taken before the 2nd term, nor the 2nd before the 8th term. The Mus.M. may be taken after at least 3 yrs.

have elapsed since admission as Mus.B. and after passing the prescribed examn.

Graduates of not less than 8 years' standing from admission to their first degree who have given proof of distinction in musical composition may be candidates for the Mus.D.

The Sc.D. and Litt.D. Either degree is open to a graduate of not less than 8 years' standing from admission to his first degree. These degrees are granted in consideration of published original contributions to the advancement of Science or Learning.

**DIPLOMAS.** In addition to degrees, which are for the most part conferred only on its own members, the Univ. grants 2 Diplomas which are open to other persons—in Geog., and in Med. Radiology and Electrology; and 7 which are restricted, or almost restricted, to members of the Univ.—Agric. Sc., Anthropol., Architect., Class. Archæol., Education, General Archæol., and Oriental Langs., the diplomas in Anthropol., General Archæol., and Orient. Langs. being open to non-members in certain exceptional circumstances only. *Certificates* of competent knowledge of certain foreign langs., open to members of the Univ. only, are awarded. *Certificates of Proficiency* in Agriculture, Estate Management, Architectural Studies, and Engineering Studies are awarded to those who proceed to the Ordinary B.A. by way of the examn. in those subjects. A *Divinity Testimonium* is granted on proof of diligent attendance at 6 courses of lectures.

The *Joint Coal Mining Diploma* of the Univs. of Cambridge and Birmingham enables Cambridge graduates in Engineering to shorten by one year the period of training at Birmingham otherwise required. It is approved by the Board of Trade.

The Diploma in Anthropology may be obtained after residence for one term only by *Officers of any of the Public Services of the Empire*, not ordinarily resident in the British Isles, having exceptional qualifications, or by *Missionaries who have served abroad*.

The Univ. makes provision for training candidates for the Higher Civil SERVICES; Indian Civil Service selected candidates; candidates for administrative appointments in Tropical Africa and other branches of the Civil Service, and candidates for service under the Govt. of the Sudan. To meet the wants of Civil Service candidates a series of lectures supplementary to the courses for regular Tripos candidates has been arranged by the Board of I.C.S. Studies, and by a Committee of Associated Colls. Detailed information may be obtained from the Director of Civil Service Studies, appointed by this Committee (C. J. B. Gaskoin, M.A., Fitzwilliam House), and from O. V. Guy, D.S.O., M.C., M.A., Lensfield House, Lensfield Road, who is Secy. to the Board of I.C.S. Studies and to the Appointments Board.

A system of MILITARY INSTRUCTION has also been organized by the Univ. The Board of Milit. Studies (Secy.—Lt.-Col. G. J. Hornsby Wright, D.S.O., M.A. Emm.) are in direct communication with the War Office and responsible for the nomination of Camb. Univ. candidates for Regular commissions in H.M. Forces. See Appendix IV. 1.

**AVIATION.** Official recognition has also been given to the University Air Squadron. The Squadron, membership of which is strictly limited, is primarily a technical organization affiliated to the University and under the direction of the Air Ministry; but practical flying instruction is also given to members. See Appendix IV. 1. Other students, with the permission of their parents or

guardians and also of their Tutors, are permitted to fly, under certain restrictions, as members of a Civil Flying Club.

The **TRAINING OF TEACHERS** is under the management of the Teachers Training *Syndicate*, established in 1878 (Secy.—F. E. E. Harvey, M.A.; address—17 Brookside, Cambridge).

Examns. for the *Certificate in Education*, held in June and Dec., are open to students of certain colleges, and to graduate teachers who have had at least a year's experience in a Secondary or other approved School, if their attainments are satisfactory.

Students of the *University Training College* (Principal—C. Fox, M.A. Chr.; address—17 Brookside, Cambridge) devote their first 3 yrs. to reading for the B.A. degree, the 4th to professional training. Several exhibitions are offered to intending schoolmasters. Students who have not previously been attached to the college may also take a post-graduate course of training.

There is also the *Cambridge Training College for Women* (*Post-graduate*) (Principal—Miss H. Dent, M.A. Girton), which admits women who have graduated at any British Univ. to a course of professional training in preparation for work in all types of schools. Recognized students receive a grant from the Board of Education, and graduates in receipt of the four years' grant at any Univ. may be transferred for their 4th year to this College after compliance with the necessary formalities. Total number of students, about 55.

For **HOLY ORDERS** in the Church of England Cambridge graduates are trained at Ridley Hall, founded in 1879 (Principal—Rev. J. P. S. R. Gibson, M.A., F.I.A. Sid. Suss.); or at Westcott House, founded in 1881 (Principal—Rev. Canon B. K. Cunningham, O.B.E., M.A. Trin.). Other theological colleges recognized by the Univ. as Houses of Residence for students: Westminster Coll., founded 1844 (Principal—Rev. W. A. L. Elmslie, B.D. Chr., Presbyterian); Cheshunt Coll., founded 1768 (President—Rev. J. S. Whale, M.A. Magd., mainly Congregational); St. Edmund's House, founded in 1896 (Rector—Rev. J. E. Petit, M.A. Chr., Roman Catholic); and Wesley House, founded 1924 (Principal—Rev. H. M. Hughes, M.A. Jes., D.D. Lond.). Cheshunt and Westminster Colleges were moved from Cheshunt and London in 1905 and 1899 respectively.

**RESEARCH STUDENTS.** Each application for admission must be made to the Secretary, and accompanied by (i.) a diploma or other certif. of graduation at a Univ.; (ii.) a statement as to the course of research which the applicant desires to pursue, together with evidence of qualification, attainments and previous study; (iii.) a statement of the degree, if any, for which the applicant wishes to be a candidate; (iv.) a certif. or declaration of the applicant's age at the date of application. In exceptional cases requirement No. (i.) may be dispensed with. The application is not granted unless it appears (a) that the course of research can conveniently be pursued within the Univ., and (b) that the applicant has produced adequate evidence that he is qualified to enter upon the proposed course. Before admission he is required to become a member of a College, or a Non-Collegiate Student.

Secretary of the Board of Research Studies: J. T. Saunders, M.A. Chr. Correspondence should be addressed to the Secretary at the Univ. Registry, Cambridge.

A Research Student pursues his course under direction and supervision, prescribed by the Degree Committee of the Faculty concerned. If he should wish to obtain a degree elsewhere he may, after he has pursued his studies in the Univ. for not less than 2 terms with regularity and industry, receive a

*Certificate* to that effect signed by his supervisor and by the V.C. After a course extending over 2 yrs. and residence in the Univ. for at least 6 terms (Cambridge graduates, 3 terms) after admission as a Research Student, the M.Sc. or M.Litt. degree may be obtained. For the Ph.D. degree (v. p. 13) 3 yrs. are ordinarily required. One year of the 3-yrs.' course may be remitted if the applicant satisfies the Board of Research Studies that he or she has done at least a yr.'s satisfactory research work before admission to Cambridge Univ. For any degree six terms' residence is essential.

UNIVERSITY SCHOLARSHIPS open to graduates number about 60, and are worth about £6000 p.a. In almost every instance they are open only to persons who have graduated in this Univ., or have kept a certain number of terms. For details see *Students' Handbook* (price 7s. 6d., Univ. Press), which also gives details of *Entrance Scholarships*.

For scholarships and grants open to others than graduates of the Univ. see App. II.

DOMINION AND COLONIAL EXHIBITIONS. In view of the difficulties experienced by Dominion and Colonial students in competing for scholarships and exhibns. in the open examn. held each Dec., Trinity Coll. is prepared to consider applications made by Dominion and Colonial Univs. on behalf of their students for the grant of exhibns.; value £40 a yr. either more or less according to holder's financial circumstances. See also App. II. Candidates must apply through the principal authority of their Univ. Applications for next award must reach the Senior Tutor, Trinity Coll., by May 1, 1938, from whom particulars should be obtained.

EXPENSES. Since each student, in addition to Univ. fees, pays bills to a College (or to the Non-Collegiate Body), and the charges vary from College to College, a concise general estimate gives only a rough indication, which may be supplemented by particulars obtained from the College of the student's choice; but Chap. IV. of *The Students' Handbook to Cambridge, 1937-38*, gives copious detail, and contains the following passage:

"The total annual expenditure of a student, *exclusive of initial, occasional, and additional expenses*, may be fairly estimated at about £270, although on the one hand it is possible by great care to live upon less, and on the other hand a larger expenditure will often enable the student to obtain greater advantages from a University career."

The items on which this estimate is based, including "guesses" as to personal expenses, are: Univ. fees (capitation tax), £5 : 5s.; Lecture fees, £18; College fees, £34 to £50 (tuition, £21 to £27; establishment charge, £12 to £15; College dues, £1 to £8); board and lodging, £80 to £182 (rooms and service, £30 to £54; food expenses, £41 to £107; fuel, £6 to £12; laundry, £3 to £9); personal expenses, £51 to £112 (books, travelling, tradesmen—including tailor, etc., clubs, and societies). The excluded initial expenses are caution-money, College admission fee (£2 to £5), matricn. £5, furniture, linen, china, etc., £15 to £65, and (£2 to £4 : 10s.) cap, gown, and surplice. The "occasional" fees are for examns. £8 : 10s., and degree fees, £3. The "additional" expenses (which may be heavy, especially if much private tuition has to be allowed for) are additional lecture and laboratory fees, long vacation expenses, and private tuition.

THE UNIVERSITY APPOINTMENTS BOARD is concerned with appointments of all kinds (Secy.—O. V. Guy, D.S.O., M.C., M.A.; Asst. Secs.—A. L. Maycock, M.C., M.A. (Education); W. N. C. van Grutten, O.B.E., M.C., M.A. (Engineering)). Address: Lensfield House, Lensfield Rd. *Telegrams*—Appointments, Cambridge. *Telephone*—54242.



1937.—586 permanent appointments, including: Government Services, 86; Educational, 214 (24 temporary); Commerce and Industry, 272; Professional Clerkships, etc., 14. In addition, technical training in vacations was found for 101 men.

CAMBRIDGE UNIVERSITY WOMEN'S APPOINTMENTS BOARD. Secy.—Miss S. Campbell, M.A., 4 Brick Court, Temple, London, E.C.4. Interviews by appointment only.

The UNIVERSITY LIBRARY contains over 1,500,000 vols., including many early printed books, and over 10,000 MSS. and 200,000 maps. It is entitled under the Copyright Act to a copy of every book published in Gt. Britain and Ireland, and a large number of foreign books and periodicals are acquired by purchase. It contains, amongst others, the following remarkable collections: Acton library (mediæval, ecclesiastical, and modern history, 60,000 vols.); W. G. Aston's Japanese library; Sir T. Wade's Chinese books; J. W. Clark collection (Cambridge books, pamphlets, papers, etc.); the Paul Hirsch collection of music. The annual budget is about £30,000.

Each College has a library. Some are interesting survivals of mediæval rooms kept in the state in which they were originally arranged. Among special collections in College libraries are: in Christ's College the Robertson Smith collection of Oriental books, many of which are connected with Semitic literature; in Gonville and Caius College 800 MSS., 60 *incunabula*, heraldic collections of Dr. John Knight (17th cent.), 1300 books and controversial pamphlets of Dr. Wm. Branthwaite (d. 1619), Norfolk and Suffolk topographical and genealogical works; in Girton College small collections of Oriental books, chiefly Sanskrit (Cowell) and Hebrew (Frere—printed catalogue), and Botany books and pamphlets (Ethel Sargent).

DEPARTMENTAL LIBRARIES. In the Old Schools (formerly the Old University Library) are now housed the following: The Squire Law Library; the Seeley Historical Library; the English Library; the Modern Languages Library (including the Beit Library of German books); the Moral Sciences Library. The Marshall Library of Economics is in Downing Street. The Oriental Languages Library (including the Bendall Sanskrit books) and the Music School are in what was formerly the Balfour Laboratory in Downing Place. In the Arts School are the library of the Philosophical Society and the Mathematical Institute.

#### MUSEUMS. (a) Art and Archæology.

*The Fitzwilliam Museum* (Director—L. C. G. Clarke, M.A. Trin. H.) contains a large and valuable collection of paintings, drawings, engravings, Egyptian and Greek antiquities, ceramics, coins, illustrated MSS., autographs, early printed books, and music.

*The Museum of Classical Archæology* (Curator—Prof. A. J. B. Wace, M.A. Pemb.) contains a collection of casts illustrating the history of Greek sculpture.

*The Museum of Archæology and Ethnology* (Curator—T. T. Paterson, M.A. Trin.) has a large and increasing collection, including Saxon urns and ornaments, casts of Central American monuments, Egyptian stone implements, unique Fijian collections, and numerous others resulting from scientific expeditions by Cambridge men.

#### (b) Science.

The Museums of Science include museums, laboratories, lecture-rooms, classrooms, and workshops for Agric., Biochem., Bot., Chem., Engin. (including Engine-room, Elasticity, Elec., and Hydraulic Labs., and drawing office), Exper. Physics, Hum. Anat., Ethnol., Medicine, Mineralogy, Path., Physiol., Psychol., Zool., and Comp. Anat.

*The Museum of Zoology* (Director—.....) includes very complete series of vertebrates and invertebrates, a series of invertebrata from Naples, valuable collection of Polyzoa, extensive collection of marine animals from Pacific and Indian Oceans, and an important collection illustrating heredity, protective resemblance, and mimicry.

*The Sedgwick Museum of Geology* (Curator—A. G. Brighton, M.A. Chr.) includes a fine collection of British and foreign building stones lately added to the Economic section.

#### LABORATORIES AND FIELD STATIONS.

*The Zoological Laboratory*, in addition to providing for the ordinary work of the Dept. and for research, affords peculiar facilities for the study of diseases of animals and of economic entomology.

*Low Temperature Station for Research in Biochemistry and Biophysics* (Superintendent—F. Kidd, M.A. Joh.). See App. III. A. I. (f.).

*The Botanic Garden* (Director—H. Gilbert-Carter, M.B., Ch.B. Edin., M.A. Trin.).

*The Scott Polar Research Institute* (Director—Prof. F. Debenham, O.B.E., M.A. Cai.). See App. III. A. (VI.).

*Institute for Research in Genetics*, Storey's Way. Adjoining is the *Small Animal Breeding Institute* (Director—Prof. R. C. Punnett, M.A. Cai., F.R.S.). See App. III. A. I. (d.)

*The Molteno Institute of Biology and Parasitology* (Director—Prof. D. Keilin, M.A. Magd.). See App. III. A. I. (d.).

Research Institutes attached to the School of Agriculture :

*Animal Nutrition Institute*. There is a branch laby. at the Univ. Farm (Director—W. S. Mansfield, M.A. Emm.). See App. III. A. I. (d.).

*Plant Breeding Institute* (Director—H. Hunter, M.A. Cath.). See App. III. A. I. (a.).

*Virus Diseases of Potatoes Section* (Director—R. N. Salaman, M.D. Trin. H.).

*Horticultural Research Station* (Director—D. Boyes, M.A. Emm.). See App. III. A. I. (b.).

*Institute of Animal Pathology* (Director—Prof. T. Dalling, M.R.C.V.S.). See App. III. A. I. (c.).

A SCHOOL OF PATHOLOGY was endowed by the Rockefeller Foundation (£133,000) and Ernest Gates (£33,000) in 1924.

The OBSERVATORY (Director—Sir A. S. Eddington, M.A. Trin., F.R.S., Plumian Prof. of Astr.), about a mile from Cambridge, has a meridian circle of 8½ in. aperture; the Northumberland equatorial 12 in. aperture; the Sheepshanks photographic equatorial 12½ in.; a number of smaller instruments, and a good library.

The SOLAR PHYSICS OBSERVATORY (Director—Prof. F. J. M. Stratton, D.S.O., M.A. Cai.) standing close to the older Obs. has the Newall telescope (25 in.), McClean cœlostast and spectrograph, Huggins telescopes, etc. The Univ. has taken over charge (for the Govt.) of the Solar Physics Obs. formerly at South Kensington, receiving a grant-in-aid.

The OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly examns. and awards certificates—Higher, School, and Lower. The two former exempt the holder, under certain conditions, from Responsions and the Previous Examination, the Matricn. examns. of London, the Northern and other English Univs., and the Preliminary examns. of various professional bodies, etc. The Regulations

of the Board are published by the Ox. and Camb. Univ. Presses (post free 1s. 3d.). Secretaries: at Cambridge—T. G. Bedford, M.A., Brook House, Trumpington St.; at Oxford—C. H. Wilkinson, M.A., 74 High St.

The CAMBRIDGE LOCAL EXAMINATIONS, instituted in 1858, are held at 440 centres in the U.K. and 195 overseas, notably in India, Ceylon, Malaya, W. Indies, and Africa. Approx. number of candidates in 1937: Home 12,410, Overseas 16,250. Regns. for the School and the Higher School Certificates and Junr. examns. and for Certif. of Proficiency in English (for foreign students) may be obtained from Syndicate Buildings, Cambridge.

Local Examns. were held in December 1936 at 420 centres, including 49 in India, 33 in Ceylon, 54 in Straits Settlements and Malay States, 34 in Africa, 19 in W. Indies, 4 in China, 3 in S. America, 4 in Netherlands Indies, and others in Aden, the Bahamas, Belgium, Bermuda, British Honduras, British North Borneo, Fiji, Germany, Gibraltar, Japan, Malta, Manchuria, Mauritius, Portugal, Sarawak, Seychelles, and Switzerland. The number of candidates was 18,306. In July 1937 the examns. were held in 410 centres, of which 55 were overseas, and the number of candidates was 11,777.

UNIVERSITY EXTENSION Lectures are delivered and classes in connexion with them held by a staff of about 40 itinerant lecturers in various towns in different parts of England, under a system initiated in Cambridge in 1873. The characteristic features of the method of teaching adopted are (i.) the Lecture presenting the subject in broad outline, (ii.) the Class, held for about an hour before or after the lecture, at which questions are given out by the lectr., (iii.) the essays written on these questions, and (iv.) the examination. A Certificate is awarded to those whose work during the course is satisfactory and who pass the examination. A *Travelling Library* is provided for each course. The work is under the management of the BOARD OF EXTRA-MURAL STUDIES, on which there are, in addition to members of the Senate, representatives of the Local Centres Union and the Workers' Educational Assn. In 1936-37 41 full courses of 10 or 12 lectures and 12 short courses of 6 lectures were given, attended by 3768 persons.

THE SUMMER MEETING (University Extension) is held in Cambridge in alternate years. In other years there is a Vacation Course for Foreign Students, and also Summer Courses in Geography, History, English Literature, etc. A summer meeting will be held in 1938.

TUTORIAL CLASSES are arranged in connexion with the Workers' Educational Assn. They are managed by a Committee appointed by the Board of Extra-Mural Studies, including all the members of the Board nominated by the W.E.A. Attendances, 1936-37: men 289, women 334. The Tutorial Classes Summer School is held every year for 2 or 3 weeks. In 1937 it was held for 2 weeks in July and August and was attended by 52 students.

Six extra-mural students were resident in Cambridge for the year.

COURSES IN RURAL AREAS. The Board in co-operation with the Local Education Authority and other bodies arrange short courses of lectures in the villages of Cambridgeshire. Similarly the Board have entered into co-operation with the Local Education Authority and the Workers' Educational Association for the development of adult education in the rural parts of Bedfordshire and the Isle of Ely. Resident tutors supervise the work of the Board in Bedfordshire, Cambridgeshire, and Northamptonshire.

Full particulars of all the above obtainable from the Secretary (G. F. Hickson, M.A.), Board of Extra-Mural Studies, Stuart House, Cambridge.

PUBLICATIONS. The *Camb. Univ. Reporter*, weekly during term, 3d. a copy,

terminal subs. 2s. 6d., or by post 4s. 6d.; *Ordinances*, 1936 (fresh editions every 3 or 4 yrs.), 15s.; *The Student's Handbook*, annually in early autumn, 7s. 6d.; *Facilities for Study and Research*; *Compendium of Univ. Regns.*, 9d.; *Statutes of the Univ. and Passages from Acts of Parli.*, 5s.; *Endowments of the Univ.*, 1904, 10s. 6d.; *Alumni Cantabrigienses*, Ed. J. and J. A. Venn (to the year 1751, four volumes), £7: 10s. each vol.; *Matricns. and Degrees* (a list of all those who have entered the Univ.): 1544-1659, 45s.; 1851-1900, 15s.; 1901-1912, 12s. 6d.; the *Calendar*, annually (Nov.), 15s.; the *Historical Register*, 20s. *Historical Register Supplement*: 1911-20, 8s. 6d.; 1921-30, 12s. 6d.; *Index to Tripes Lists*, 1748-1910, 10s.; *An Introduction to Cambridge*, by S. C. Roberts, 2s. 6d.; *The War List of the Univ. of Cambridge*, 1914-1918, 7s. 6d.; *University Extension: a Survey of Fifty Years*, by W. H. Draper, 3s. 6d.; *University Ceremonies*, by H. P. Stokes, 7s. 6d.; *The Cambridge Pocket Diary*, annually in Oct., 2s. 6d., with pencil, 3s. 6d. These, and the books mentioned below, Mullinger's and Willis and Clark's, may be had from the Cambridge Univ. Press, Fetter Lane, London, E.C.4, and from all booksellers.

Histories, etc.: (a) *Annals of Cambridge*, by C. H. Cooper (5 vols.); (b) *The Univ. of Cambridge*, by J. B. Mullinger (3 vols. to the later 17th cent.); (c) College Histories—Robinson's Series, various authors; Dent's Series—King's. St. John's, Trinity, 2s. each; (d) *Cambridge and its Colleges*, A. Hamilton Thompson; (e) *Cambridge*, T. D. Atkinson and J. W. Clark; (f) *Architectural History of Cambridge*, R. Willis and J. W. Clark, 4 vols.; (g) *The Charm of Cambridge*, by S. C. Roberts.

Magazines (unofficial): The *Cambridge Review*, the *Granta*, weekly during term.

## THE YEAR 1936-37

**BENEFACTIONS.** Mrs. F. L. Nicholson, £1000 for further endowment of William Barclay Squire Prize (musical palæography). Mrs. A. H. Lloyd, gift of prints to the Old Schools. Imperial Chemical Industries, apparatus and equipment for Physical Chemistry Laboratory. Drapers' Company, continuation of grant of £800 p.a. until 1946, towards salary of Drapers' Professor of French. The late Charles Shannon, R.A., bequest of Greek and Egyptian antiquities, drawings, and portraits to the Fitzwilliam Museum.

**BUILDINGS.** Good progress with the new Anatomy building. New pigeries and sheds on the Univ. Farm. Small laboratory for Radio research being built. Geophysical Laboratory in Observatory grounds enlarged.

**NEW POSTS.** Professorships of Comparative Philology and Medieval History. Asst. Director of Research in new Dept. of Medicine.

**OTHER DEVELOPMENT.** A Dept. of the Faculty of Mathematics, to consist of a Mathematical Laboratory containing calculating-machines.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES, ETC.** Dr. Baké (Utrecht), "Indian Folk Music." Prof. J. Castillejo (Madrid), "Spanish Thinkers from Seneca to Don Francisco Giner." Prof. L. Cazamian (Paris), "Le Romantisme en France et en Angleterre." Prof. P. Collinet (Paris), "Les Romains et les Anglais: Esquisse de Psychologie comparée"; "Evolution of Roman Obligations." Prof. W. J. de Haas (Leiden), "Low Temperature Research." Dr. M. Dessoir, "The Creative Activity of the Artist." Prof. H. G. Fiedler, (Oxford), "Der Junge Hauptmann (als Vorfeier zu seinem 75. Geburtstag)." Prof. E. Fraenkel (Oxford), "The Last Lyrics of Horace (with interpretations)." Prof. E. Gilson (Collège de France), "Les Origines Anglaises de l'Humanisme au Moyen-Âge." Prof. P. Bosch Gimpera (Barcelona), "The Kelts in Spain."

Mr. C. A. Gordon, "Manuscript Missals: the English Uses." Prof. M. Granet (Paris), "La Bataille des Cadeaux dans les Usages Chinois." Prof. Sir H. J. C. Grierson, "Some of Shakespeare's Tragedies considered in relation to their sources and to one another." Prof. Hendy (Oxford), "Venice and the Venetian Painters." Prof. A. V. Hill, "The Heat-Production of Muscle and Nerve: a critical survey." Dr. B. H. Hill, "Recent Investigations on the Parthenon." Prof. L. T. Hogben, "Some Neglected Aspects of the Species Problem." Dr. E. Hubble, "The Observational Approach to Cosmology." Prof. J. Huizinga (Leyden), "The Play Element of Culture." Gen. Sir E. Ironside, "British Military History from 1899 to the present day." Prof. E. F. Jacob, "The Council of Constance." Dr. A. Jiménez (Madrid), "La Ciudad del Estudio"; "La Ciudad Residencial." Prof. D. Gerhard Kittel (Tübingen), "The Making of the Theologisches Wörterbuch zum Neuen Testament." Prof. Li Chi (Academia Sinica), "Ancient China in the light of recent Archaeological Discoveries"; "Early Chinese Potteries." Mr. C. O. D. MacCarthy, "Leslie Stephen." Miss I. I. Macdonald, "Don Alvaro de Luna and the Reign of John II." Prof. H. Mark (Vienna), "Polymerisation Processes." Hon. H. Nicolson, "The Meaning of Prestige." Prof. B. Ohlin, "Recent Swedish Contributions to the Economics of Unused Resources." Dr. O. Piper, "Das Aergernis der Einmaligkeit." Prof. Eileen Power (London), "Pastoral England in the Middle Ages." Prof. J. Proudman, "Dynamical Oceanography." Prof. J. Roosval (Stockholm), "Berndt Notke and Henning von der Heyde of Lübeck, and their works in the Baltic North." Dr. R. Pound (Harvard), "Recent Tendencies in Jurisprudence." Prof. H. Rothfels, "The Social Policy of Bismarck and the Problem of State Socialism in Germany." Prof. Suzuki (Kyoto), "Buddhism in the Life and Thought of the Japanese People." Prof. H. S. Taylor (Princeton), "Isotopic Exchange Reactions." Prof. T. von Kármán, "The Problem of Fluid Resistance through the Ages"; "The Use of Orthogonal Functions in Practical Engineering Problems"; "Contributions to the Theory of Turbulence."

DEATHS. 1936: Rt. Hon. Viscount Hanworth, Deputy High Steward, of Trinity; T. M. Lowry, Prof. of Physical Chemistry, of Trinity Hall; C. S. Terry, Hon. Fellow of Clare; A. L. Hunt, of St. John's; W. H. Macaulay, Fellow of King's; Rev. W. H. Norman, of Caius, Hon. Canon of Ely Cathedral; Rev. S. T. Adams, of St. Catharine's, Hon. Canon of Ely Cathedral.

1937: Sir G. E. Smith, Hon. Fellow, formerly Fellow, of St. John's; R. J. Tillyard, Hon. Fellow of Queens'; Rt. Hon. Sir F. Pollock, Bart., Hon. Fellow and formerly Fellow of Trinity; H. R. Tottenham, formerly Fellow of St. John's; F. S. Macaulay, of St. John's; J. Holt, of St. Catharine's; J. W. Capstick, Fellow of Trinity; Rev. H. G. Hooton, of Queens'; Rev. Sir E. C. Hoskyns, Univ. Lectr. in Divinity, President and Fellow of Corpus, Hon. Canon of Derby Cathedral; F. A. Potts, Univ. Lectr. in Zoology, of Trinity Hall.

RESIGNATIONS AND RETIREMENTS. Profs.: Sir J. Barcroft (Physiol.), J. B. Buxton (Animal Pathol.), W. G. Constable (Fine Art), J. S. Gardiner (Zool.), T. C. Hodson (Social Anthropol.), Dr. A. D. McNair (Internat. Law). Lectrs.: Dr. L. A. Borradaile (Zool.), W. S. Farren (Engin.), Dr. F. Goldby (Anat.), P. M. Jones (French), T. Peel (Hopkinson Lectr. in Applied Thermodynamics), Dr. R. H. Rastall (Mineral and Petrol.), W. F. Reddaway (Hist.), Dr. C. Shearer (Anat.), W. M. Smart (Maths.). Demrs.: M. T. Greig (Anat.), R. Knox (Pathol.), Dr. T. C. Phemister (Mineral and Petrol.), Dr. C. P. Snow (Chem.), O. A. Trowell (Physiol.), Dr. E. B. Worthington (Zool.).

HONORARY DEGREES. LL.D.—His Highness the Maharaja Gaekwar Sir

Sayaji Rao III. of Baroda, G.C.S.I., G.C.I.E.; Rt. Hon. Joseph Aloysius Lyons, Prime Minister of the Commonwealth of Australia; Rt. Hon. Ernest Lapointe, K.C., Minister of Justice in the Govt. of the Dominion of Canada; Hon. Nicolaas Christiaan Havenga, Minister of Finance in the Govt. of the Union of South Africa; Hon. Walter Nash, Minister of Finance in the Govt. of New Zealand; Sir Muhammad Zafrulla Khan, K.C.S.I., a Member of the Executive Council of the Governor-General of India; Sir Donald Charles Cameron, G.C.M.G.

STUDENTS (excluding 137 men and 9 women not members of the Univ.) whose homes are in the British Isles: men 4721, women 461; not in the British Isles but within the British Empire: m. 396, w. 28; in foreign countries: m. 269, w. 18. Total: full-time, 5893.

RESEARCH STUDENTS, December 1936, 396, of whom 175 were Cambridge graduates. Their distribution among the various fields of research was as follows: Aeronautics 5, Agric. 17, Anglo-Saxon 2, Anthropol. 10, Archaeol. 2, Astrophysics 2, Biochem. 19, Botany 33, Classics 9, Colloid Sc. 9, Crystallog. 1, Divinity 5, Econ. 14, Engin. 14, Engl. 20, Entomol. 7, Geog. 3, Geol. 5, Geophysics 2, Hist. 25, Law 4, Maths. 53, Metall. 4, Mod. Langs. 14, Moral Sci. 10, Org. Chem. 3, Oriental Langs. 4, Parasitol. 7, Pathol. 1, Petrol. 8, Phys. Chem. 19, Physics 37, Physiol. 7, Psychol. 3, Zool. 18.

DEGREES. D.D., 2; B.A., 1511; M.A., 830; M.Litt., 1; Litt.D., 4; LL.B., 34; LL.M., 1; LL.D., 2; M.Sc., 2; Sc.D., 15; M.B., 139; M.D., 21; B.Chir., 70; M.B., B.Chir., 69; M.Chir., 2; Mus.B., 8; Ph.D., 76. Titles of degrees conferred on women during the academical year: B.A., 125; M.A., 70; Sc.D., 1; M.D., 1; M.B., B.Chir., 4; M.B., 2; B.Chir., 3; Mus.B., 1; Ph.D., 6.

# UNIVERSITY OF DURHAM

Founded 1832

VISITOR—THE LORD BISHOP OF DURHAM.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDONDERRY,  
K.G., M.V.O., D.C.L., LL.D.

VICE-CHANCELLOR—J. F. DUFF, M.A. Camb., M.Ed. Manc.

PRO-VICE-CHANCELLOR—Rt. Hon. LORD EUSTACE PERCY, M.A., D.C.L.  
Ox.

PROCTORS—G. H. CHRISTIE, M.Sc., Ph.D. Sheff. ; VERNON BROWN,  
O.B.E., T.D., M.Sc.

REGISTRAR—W. S. ANGUS, M.A. Ox., LL.B. Liv.

LIBRARIANS—H. W. ACOMB, M.A. Camb. ; B. S. PAGE, M.A.

Telephone : Registrar—Durham 744.

## DIVISIONS OF THE UNIVERSITY

Durham Division : *see* p. 80.

Newcastle Division : *see* p. 84.

## AFFILIATED AND ASSOCIATED COLLEGES

A. Colleges in which students may matriculate, keep terms, and pass examns., and so qualify without coming to England for the B.A., M.A., B.D., D.D., B.C.L., and D.C.L. degrees :

CODRINGTON COLLEGE, BARBADOS. Trustees (under the will of Christopher Codrington, who died in 1710)—The Society for the Propagation of the Gospel ; Visitor—The Lord Bishop of Barbados ; Principal—Rev. J. C. Wippell, M.A., D.D. ; Prof. of Theology—Rev. R. J. Siderfin, B.D. ; Prof. of Classics—W. W. C. Dunlop, M.A. ; Prof. of Medicine—E. B. Carter, M.D., C.M.

FOURAH BAY COLLEGE, SIERRA LEONE. Founded in 1827 by the Church Missionary Society. In 1918 the Wesleyan Missionary Society became associated with the C.M.S. in the control of the College. Visitor—The Bishop of Sierra Leone ; Deputy Visitors—The Chief Justice, the Colonial Secretary ; Principal—Rev. E. A. H. Roberts, M.A. ; 4 Tutors and 3 Occasional Lecturers.

B. SUNDERLAND TECHNICAL COLLEGE. Founded in 1901. By the Durham University Act of 1908 this College was to be affiliated in the Schools of Engineering and Electrical Engineering when the equipment and staff should be deemed adequate. The affiliation took place in 1930, and in 1931 certain members of the staff were accorded the status of " Recognized Teachers " in the University. The College is represented on Senate and on the Board of the Faculty of Applied Science. Principal—E. R. Verity, B.Sc., A.R.C.S.

G. The following associated Theological Colleges :

St. Aidan's, Birkenhead ; St. Andrew's, Oyo, Nigeria ; St. Augustine's,

Canterbury; the Bible Churchmen's Missionary Coll., Clifton; Chichester; Clifton, Bristol; Dorchester; Edinburgh; Highbury; Jamaica; Lichfield; Lincoln; Oak Hill Coll., Southgate, N. 14; Queen's Coll. (St. John's, Newfoundland); Salisbury; Warminster; Bishop Wilson School, Isle of Man; Queen's Coll., Birmingham.

Students may take in these Colleges courses extending over 3 years, which qualify for the L.Th. Nine terms kept in one of these Colleges, after passing the matricn. examn., may be counted in lieu of 6 of the terms required for the B.A. degree in the case of a student who obtains the L.Th.

## GENERAL INFORMATION

The University was established under Act of Parliament, passed in 1832, and reconstituted in two divisions in 1908. The College of Medicine, founded in 1832, and associated with the University first in 1852, and more closely in 1870, and Armstrong College founded in 1871 as the Durham College of Physical Science, were merged in 1937 in King's College, Newcastle-upon-Tyne. The Vice-Chancellorship is held for a period of two years alternately by the Warden of the Durham Colleges and the Rector of King's College.

**LIBRARIES.** See under the Colleges.

**DEANS OF FACULTIES**—*Theology*: Rev. E. G. Pace; *Arts and Letters*: Prof. G. R. Goldsbrough; *Medicine*: Prof. S. McDonald; *Science*: Prof. P. J. Heawood; *Applied Science*: J. Morrow; *Music*: Prof. Sir E. C. Bairstow; *Commerce*: Prof. D. T. Jack; *Law*: T. K. Johnston.

**ADMISSION.** See Appendix I.

**DEGREES.** B.D., D.D.; B.A., B.Arch., M.A., M.Litt., D.Litt.; B.Sc., M.Sc., D.Sc.; B.C.L., D.C.L., LL.B., LL.M.; M.B., B.S., M.D., M.S., D.Ch.; B.Hy., D.Hy.; B.D.S., M.D.S.; B.Mus., D.Mus.; B.Com., M.Com.; M.Ed.; Ph.D.

A degree of B.Litt. was established in 1895 and discontinued after June 1912.

The B.D. examn. is open to candidates who are graduates in Arts of Durham.

The D.D. is open to a B.D. of Durham who is a Master of Arts of 10 yrs.' standing (from B.A. or M.A.) on submission of a sufficient contribution to learning.

The B.A., B.Sc., or B.Com. may be obtained by a 3 yrs.' undergraduate course. For the 1st yr. of the B.Sc. course equivalent study in another Univ., and for the 1st yr. of the B.Com. course 2 yrs.' attendance as an evening student, may be accepted. For the B.Mus. two public examns. must be passed.

For the M.B. and B.S. at least 3 of the 5 yrs. of Med. study must be spent in the Coll. at Newcastle. The B.Hy. is open to graduates in Med. who have spent 1 yr. in professional study as Senate shall determine. The B.D.S. course is one of 5 yrs.

The B.C.L. may be taken by examn. by a B.A. of 6 terms' standing. The LL.B. may be taken by a candidate after a 3 yrs.' course in the Faculty of Law.

The M.A. is open to a B.A. of 9 terms' standing who obtained 1st or 2nd Class Honours in the Final B.A. examn. or, after passing this examn., has passed the Dipl. Theol., B.D., B.C.L., M.B. or B.Sc. degree examn., or who qualifies by passing a special examn. The M.Litt. can be obtained by graduates in Arts or Commerce of Durham after at least 2 yrs.' research under the direction of a



member of the University Staff. The M.Sc. can be obtained by a B.Sc. of 2 yrs.' standing by original work or examn. or by graduates of Science of other approved Univs. after 2 yrs.' study and research. The M.D.S. can be obtained by a B.D.S. of 2 yrs.' standing by thesis and practical dental work of high skill. The M.Ed. can be obtained without further residence by graduates of Durham or of an approved Univ. who hold the Dip. in the Theory and Practice of Teaching of Durham; by other graduates holding a diploma in the theory and practice of teaching of an approved Univ. after a 2 yrs.' course of study *under direction*.

The D.Litt. or D.C.L. may be obtained by a B.A. (or B.Litt.) or B.C.I., respectively, of 10 yrs.' standing from graduation by a sufficient contribution to learning; the D.Sc. in the 7th year after admission to B.Sc.; the D.Mus. by a B.Mus. of 15 terms' standing.

For the M.D. a candidate must have had 2 yrs. of research work or of practice in a hosp. or Military or Naval service or of general practice after graduation as M.B.

For the D.Ch. a candidate must have devoted 3 yrs. (including one at least in the Univ.), subsequently to having obtained a registrable qualification, to the study of surgery and ancillary subjects.

For the D.Hy. 2 yrs.' experience of Pub. Health research after obtaining the B.Hy. are necessary.

**LICENCES.** The Licence in Theology is open to members of the Church of England only, who pass the Durham Colls. matricn. examn. or are exempted therefrom. Nine terms must be kept at one of the Theol. Colls. in list C above.

The Licence in Dental Surgery is open to those who pass a matricn. examn. and spend 4 yrs. of professional study after registration with the General Medical Council.

**DIPLOMAS.** *Theology*—open to grads. of a Univ. of the British Empire who keep 3 terms at Durham and pass the Dip. examn. *Foreign Langs.*—open to grads. of the Univ. in Arts, Letters or Commerce. *Arabic*—covers 3 terms. *Psychiatry*—open to legally qualified med. practitioners. *Public Health*—open to med. practitioners of not less than 2 yrs.' standing. *Theory and Practice of Teaching*—open to grads. of a Univ. in the U.K. or holders of one of the qualifications recognized by the Bd. of Education; covers 3 terms after graduation.

*Testamur in Biblical Studies for non-resident students*—4 yrs. of approved study. *Certificate in Biblical Studies for non-resident students*—1 yr. of approved study.

**FEES.** Matricn., £2. Examns. and degrees, £2 to £10 : 10s. (Examns. for D.Ch., £20; D.Hy., £20; Final for M.B., B.S., £15).

**APPOINTMENTS BOARDS.** Durham Colleges (Secretary, University Offices, 46 North Bailey, Durham). King's College Medical School (Secretary, Medical School, Northumberland Road, Newcastle-upon-Tyne). King's College (Secretary, King's College, Newcastle-upon-Tyne).

**PUBLICATIONS.** *Univ. Calendar* (Oct.), 2s. 6d.; *Durh. Univ. Gazette*, 4s., 4 times a year; *Durh. Univ. Journal* (oldest Univ. Mag. in England), once a term, 1s. 6d.; *Abstracts of doctorate theses* (Nov.), 1s.; *Riddell Memorial Lectures* (Jan.), 2s. 6d.

## THE YEAR 1936-37

The postponed Centenary Celebrations of the University were held on July 1st and 2nd, 1937.

New Statutes for the University were approved by His Majesty in Council on July 29th, 1937.

**BENEFACTION.** Presentation to the Univ. Library of a book of Rudyard Kipling's manuscripts by his widow.

**CHANGES IN REGULATIONS.** Admission to the B.D. degree by thesis, of candidates who have taken First Class Hons. in Theology for B.A. Joint Hons. School in French and Latin discontinued. Alterations in Medical course took effect in Nov. 1937 in accordance with recommendations of General Medical Council.

**HONORARY DEGREES.** *D.C.L.*—Rt. Hon. R. A. Eden, Sir Joseph Reed, Very Rev. C. A. Alington, P. P. Bedson, Rt. Hon. Lord Cadman of Silverdale, Hon. J. A. Hanan, Sir John Jarvis, Rev. S. R. P. Mouldsdales, J. E. T. Philipps, Sir Cuthbert Wallace, G. H. A. Wilson. *D.Sc.*—Sir H. H. Dale. *D.Mus.*—W. T. Walton. *D.Ch.*—R. P. R. Lyle.

**STUDENTS READING FOR DEGREES AND DIPLOMAS OF THE UNIV.** Full-time, 1546; Part-time, 39, including 256 graduates.

**DEGREES.** B.A., 164; M.A., 65; B.Arch., 2; B.C.L., 1; B.Com., 9; M.Com., 1; M.Ed., 1; M.Litt., 2; LL.B., 8; B.Sc., 119; M.Sc., 17; M.B., B.S., 54; M.S., 3; M.D., 13; B.Hy., 11; B.D.S., 2; B.Mus., 11; Ph.D., 11; L.Th., 37; L.D.S., 7; Dip.Th., 17; D.Th.P.T., 132; D.P.H., 12.

**TUTORIAL CLASSES (W.E.A.) AND EXTENSION COURSES.** The total no. of Tutorial Classes was 55, of Advanced Courses 1, of Extension Courses 37, of Preparatory Classes 5; districts served: the counties of Durham, Northumberland, Cumberland, and Westmorland.

## DURHAM DIVISION

WARDEN—J. F. DUFF, M.A. Camb., M.Ed Manc (Vice-Chancellor)

SECRETARY TO THE COUNCIL—J. L. BURCHNALL, M.C., M.A. Ox.

PRÆLECTOR—Rev E G PACE, M A., D.D.

TREASURER—.....

LIBRARIAN—H. W. ACOMB, M.A. Camb.

Telephone : Warden and Secretary of Council—Durham 300-301.

### TEACHING STAFF

#### *Archæology*

Burley, E. B., M.A. Ox., F.S.A.  
Lectr. (Romano-British  
A.) and Director,  
Archæological Re-  
search.

#### *Botany*

Griffiths, B. M., D.Sc. Birm.,  
F.L.S. Reader.  
Chalklin, Kathleen M., M.Sc.  
Wales Lectr.

#### *Chemistry*

Masson, J. I. O., D.Sc. Melb.,  
F.I.C. Prof.  
Lectrs. :

Christie, G. H., M.Sc., Ph.D. Sheff.  
Gibby, C. W., M.Sc., Ph.D. Lond.  
Waters, W. A., M.A., Ph.D. Camb.

#### *Classics*

Mayne, Rev. Canon W. C., M.A.  
Camb. (Greek and Class. Lit.)  
Prof.  
How, Rev. Canon J. H., M.A. Ox.  
(Latin) Prof.  
Boden, Rev. J. P., M.A. Lectr.  
Body, L. A., M.A. Camb. Lectr.  
Donaldson, Rachel E. D., M.A.  
Ox. and Durh. Lectr.  
Wright, R. P., B.A. Camb. Lectr.  
Norman, R. T., M.A. Lond. and Ox.  
(Anc. Hist. and Philos.)  
Lectr.

#### *Divinity and Eccl. History*

Quick, Rev Canon O C., M A.  
Ox., D.D. St And Prof.  
Pace, Rev. E. G., M.A., D.D. (Div.)  
Reader.  
Irwin, Rev. O. A. C., M.A., B.D.  
Dub. Lectr.

#### *Economics*

Helsby, L. N., B.A. Ox. Lectr.

#### *Education*

Braley, Rev. Canon E. F., M.A.,  
LL.D. Camb. Prof.  
Willatt, J. F., M.A. Camb. Lectr.

#### *Elocution*

Bentley, J. Lectr.

#### *English Lang. and Lit.*

Abbott, C. C., M A. Lond., B.A.,  
Ph.D. Camb. Prof.  
Colgrave, B., M.A. Camb. Reader.  
Leech, C., M.A., Ph.D. Lond.  
Lectr.  
Rossiter, A. P., B.A. Camb. Lectr.

#### *French*

Sells, A. L., M.A. Camb., D. ès L.  
Paris Prof.  
Scott, Ethel M., M.A. Lond. Lectr.  
Dodds, Muriel, M.A. Camb.,  
D. de l'U. Paris Lectr.  
Wilson, R. L., M.A., B.Litt. St.  
And. Lectr.

Manley, Audrey F., M.A., A.R.C.M.  
Asste.

*Geography*

Lectrs. :

Manley, G., M.A., B.Sc. Camb.

Sylvester, Dorothy, M.A. Liv.

Hannah, J. B., M.A. Edin.

*Geology*

Holmes, A., D.Sc. Lond., D.I.C.,  
F.G.S. Prof.

Lectrs. :

Hopkins, W., M.Sc., Ph.D.

Reynolds, Doris L., M.Sc. Lond.

*German*

McCoort, Isobel, M.A., Ph.D.  
Edin. Lectr.

von Lindheim, B., D.Phil. Vienna  
Lektor.

*Hebrew and Oriental Langs.*

Thomas, David W., M.A. Ox. (to  
30.9.38) Prof.

*History*

Whiting, Rev. C. E., M.A., D.D.,  
B.C.L. Prof.

Lecturers :

Hood, F. C., M.A. Edin.

Douie, Decima L., B.A., Ph.D.

Braley, Rev. E. F., M.A., LL.D.  
Camb.

Hamilton-Thompson, Beatrice M.,  
M.A., B.Litt. Ox.

*Liturgiology*

Evans, Rev. E., M.A., B.D. Lectr.

*Logic and Psychology*

Robinson, A., M.A., D.C.L. Prof.

Wallis, Rev. C. S., M.A. Lectr.

*Mathematics*

[Prof.

Heawood, P. J., M.A. Ox., D.C.L.

Burchnall, J. L., M.C., M.A. Ox.

Reader.

Baxter, E. F., M.A. Camb., M.Sc.

Lond. (Applied M.) Lectr.

*Music*

Bairstow, Sir Edward C., D.Mus.,  
F.R.C.O. Prof.

*Philosophy*

..... Prof.

Macgregor, R., M.A. Edin. Lectr.

*Physics*

Wagstaff, J. E. P., M.A. Camb.  
D.Sc. Lond. Prof.

Chalmers, J. A., M.A., Ph.D.  
Camb., B.Sc. Lond. Lectr.

Prowse, W. A., B.Sc., Ph.D. Lectr.

*Theology, v. also Divinity*

Coleman, Rev. N. D., M.A. Camb.  
(T. and Hellenistic Greek)

Lectr.

Sparks, Rev. H. F. D., M.A. Ox.  
Lectr.

Rogers, Rev. Canon C. F., M.A.  
(Pastoral T.) Lectr.

**University Extension**

35 Tutors and Lecturers were  
employed, of whom 3 were  
members of the University  
Staff. Secy. to the Joint  
Committee: Rev. Dr. Pace.  
Organizing Secy. of N.E.  
District of W.E.A.: B. H.  
Abrahart.

## THE DURHAM COLLEGES

UNIVERSITY. Master—Rev. J. H. How, M.A. Ox. Censor—C. C. Abbott,  
M.A. Lond., B.A., Ph.D. Camb. Bursar—A. A. Macfarlane-Grieve, M.A.  
Chaplain—Rev. N. D. Coleman, M.A. Camb.

HATFIELD. Master—A. Robinson, M.A., D.C.L. Vice-Master and Chap-  
lain—Rev. E. G. Pace, M.A., D.D. Censor—L. N. Helsby, B.A. Ox. Bursar  
—A. A. Macfarlane-Grieve, M.A.

St. CHAD'S. Principal and Chaplain—Rev. J. F. Brewis, M.A. Ox. Vice-

Principal—Rev. C. E. Whiting, M.A., D.D., B.C.L. Classical Lectr.—L. A. Body, M.A. Camb. Fellow, Tutor, and Bursar—Rev. J. P. Boden, M.A. Junior Tutor—R. J. H. Shutt, B.A., Ph.D. Secretary to the Governing Body—Rev. S. R. P. Mouldsall, M.A., B.D.

ST. JOHN'S. Principal—Rev. C. S. Wallis, M.A. Vice-Principal—Rev. O. A. C. Irwin, M.A., B.D. Dub. Chaplain—Rev. V. G. Davies, M.A. Lectr. in Hebrew and Bursar—W. H. A. Learoyd, M.A., B.D. Lectr.—Rev. A. R. Winnett, B.A., B.D. Teachers of Elocution—Gertrude M. McLeod, J. Bentley.

ST. MARY'S (for women). Principal—Rachel E. D. Donaldson, M.A.; Senior Tutor and Censor—Beatrice M. Hamilton-Thompson, M.A., D.Litt. Junior Tutor and Secretary—Phyllis Hodgson, B.Litt., D.Phil. Ox. Domestic Bursar—Lucie K. Waller.

\*BEDE (Training College for men). Principal—Rev. E. F. Braley, M.A., LL.D. Vice-Principal—D. E. Webster, M.Ed., B.Sc. Lond. Lectrs.—J. Jack, M.C., M.B., Ch.B. Glas.; C. R. Wheatley; T. Taylor, M.A. Camb.; Rev. H. Knight, M.A., B.Litt.; W. J. Ingram; Rev. F. O. Saunders, M.A.; J. B. Hannah, B.A. Camb., M.A. Edin.

\*ST. HILD'S (Training College for women). Principal—Angel L. Lawrence, M.B.E., M.A., LL.B. Camb. Lectrs.—Alice Roberts, M.A., M.Sc.; Jean Templeton, M.A. Edin.; Barbara McRae, B.A. Lond.; Gladys Hinde, B.A., Ph.D. Lond.; Sylvia Blackham; Mildred Head; C. Maude, F.R.C.O., A.R.C.M.; Emily Geere, N.F.U.; Helen Ewence, B.A.

\*NEVILLE'S CROSS (Training College for women). Principal—Zeta G. D. May, M.A. Camb. Lectrs.—Mary Benson, M.A., B.Sc. Manc.; Marjorie C. Haywood, M.A.; Winifred M. A. Lomas, B.Sc. Lond.; Netty M. Lunan, M.A. Aberd.; Agnes Bibby, L.R.A.M.; Agnes I. Champ; Ethel B. Row.

NON-COLLEGIATE STUDENTS. Censor—Rev. N. D. Coleman, M.A. Camb.

HOME STUDENTS (Women). Censor—Ethel M. Scott, M.A. Lond.

## GENERAL INFORMATION

For early history, see *Yearbook* for 1929.

LIBRARY, 64,640 vols., 569 incunabula; including rare theological and patristic books. Separate Science Library in the Department of Science.

ADMISSION. See Appendix I.

FEES. Including admission, tuition, examns., board and lodging, subscriptions and gratuities, at Univ. College, caution money £5, ann. charges—Arts £113, Sci. £119; Hatfield, caution money £5, ann. charges—Arts £104, Sci. £110; St. Chad's, caution money £5, ann. charges—Arts £111, Sci. £117; St. John's, caution money £5, ann. charges—Arts £110: 15s., Sci. £116: 15s.; Bede, ann. charges—Arts £50, Sci. £52; St. Mary's, caution money £5, ann. charges—Arts £106, Sci. £112; St. Hild's, £50; Neville's Cross, £45. Non-Coll. students pay £30 p.a. in Arts, £36 p.a. in Science, Univ. fees including club subscriptions; average cost of board and lodging per term £16-£20.

FELLOWSHIPS. 3 Research, £120, open only to candidates who have kept terms and taken B.A. in Durham Division. Pemberton Research Fellowship,

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\* Colleges under the Board of Education licensed by the Council of the Durham Colleges as places of residence for students reading for degrees in the Durham Division of the University.

£120, open only to candidates who have kept terms and taken B.Sc. in Durham Div.

### THE YEAR 1936-37

RESIGNATIONS. Gertrude A. C. Houston (German) ; F. W. Ritson, Treasurer ; Norah E. Stewart, Bursar, St. Mary's Coll. ; Rev. C. H. G. Davey, Chaplain, St. John's Coll. ; C. S. Axon, Rev. W. H. Dew, W. Moore, Bede Coll. ; Honor Brown, St. Hild's Coll.

STUDENTS. Full-time : 457, including 105 graduates. Part-time : 20, including 14 graduates.

DEGREES OBTAINED. B.A., 111 ; M.A., 53 ; B.C.L., 1 ; B.Sc., 31 ; M.Sc., 1 ; B.Mus., 11 ; Ph.D., 2 ; L.Th., 37 ; Dip.Th., 17 ; D.Th.P.T., 66.

# KING'S COLLEGE, NEWCASTLE-UPON-TYNE

CHAIRMAN OF COUNCIL—Rt. Hon. The VISCOUNT RIDLEY.

RECTOR—Rt. Hon. Lord EUSTACE PERCY, M.A. Ox., D.C.L., P.C.

SECRETARY TO THE COUNCIL—W. S. ANGUS, M.A. Ox., LL.B. Liv.

SECRETARIES OF EXAMINATIONS—W. S. ANGUS ; D. BURNS, M.A., D.Sc.  
Glas.

BURSAR—J. TELFER, A.S.A.A.

LIBRARIAN—B. S. Page, M.A. Birm.

Telephone : College—Newcastle-upon-Tyne 23401.

Medical School—Newcastle-upon-Tyne 21601.

## TEACHING STAFF

<i>Accounting</i>		<i>Bacteriology</i> v. Med.
Bell, Albert, F.C.A.	Lectr.	<i>Biology</i> , v. Med.
<i>Agriculture and Rural Economy</i> , v. <i>infra</i>		<i>Botany</i> , v. also <i>infra</i> Agric.
<i>Anatomy</i> v. Med.		Harrison, J. W. H., D.Sc., F.R.S.
<i>Archæology</i> , v. Classics		Prof. and Reader in Genetics.
<i>Art</i> (School of Fine Arts and Architecture)		Blackburn, Kathleen B., D.Sc.
Mainds, A. D., A.R.S.A.		Lond., F.L.S. Lectr.
Prof. and Dir. of School.		Bartlett, A. W., M.A. Camb., B.Sc.
Evetts, L. C., A.R.C.A. (Design).		Lond., M.Sc., F.L.S. Lectr.
Lyon, R., A.R.C.A. (Painting).		Clark, W. A., B.Sc. St. And. Lectr.
Maryon, H. J., Assoc. Univ. Read. (Sculpture).		Thomas, Meirion, M.A. Camb. Lectr.
Edwards, W. B., B.Arch. Liv., M.A.		<i>Chemistry</i> , v. also <i>infra</i> Agric., Med.
Manc. (Archit.).		Clemon, G. R., Ph.D., D.Sc. Lond., D.Phil. Ox., F.R.S., F.I.C.
Heslop, A., M.A. (Engraving).		(Org. C.) Prof. and Dir. of Dept.
Lall, Mrs. D. M., B.A. Birm. (Art Teaching).	Lectr.	Riley, H. L., D.Sc., A.R.C.S. Lond., D.I.C.
Kirby, Mary (Embroidery, Dress Design, and Weaving).		(Inorg. and Phys. C.) Prof.
Roberts, D. Wynn (Archit.).		Robinson, P. L., D.Sc., F.I.C.
	Lectr.	
Bradbury, R., B.A. Manc., M.Sc., D.Phil. Columbia., A.R.I.B.A. (Archit.).	Lectr.	Madgin, W. M., D.Sc. Lectr.
Sharp, T., M.T.P.I. (Archit.— Town Planning)	Lectr.	Mallen, Catherine E., M.A. Camb. Lectr.
5 Assts.		Leitch, Grace C., M.A., B.Sc., Ph.D. St. And., M.Sc. Lectr.
		Haworth, R. D., M.Sc., Ph.D., D.Sc. Manc., F.I.C. Lectr.

Sayce, L. A., M.Sc., Ph.D. Lectr.  
Raper, R., M.A., Ph.D. Camb. „

*Classics and Ancient History*

Fletcher, G. B. A., M.A. Camb.  
(Classics) Prof.  
Anderton, Mrs. Constance M.,  
M.A. Lectr.  
Westlake, H. D., M.A. Camb.  
Lectr.

Whittick, G. C., M.A. Ox. Lectr.  
Richmond, I. A., M.A. Ox.  
(Romano-Brit. Archæol.)  
Lectr.

*Crystallography and Mineralogy*

Fletcher, Rev. M., M.A. Camb. and  
Durh., M.Sc., F.G.S. Lectr.

*Dentistry, v. infra*

*Economics, v. also Accounting*

Jack, D. T., M.A. Glas.  
D. Dale Prof.  
McCallum, E. D., M.A. Glas. Lectr.  
Highton, H. E. R., M.A. Glas. „  
Allen, E., M.A. Sheff. Lectr.

*Education*

Stanley, B. T., M.A. Ox. Prof.  
Topsfield, Audrey, B.A. Ox.  
Lectr.  
Brown, V., O.B.E., T.D., M.Sc.  
Lectr.  
Bailes, Stella, B.Sc. Lectr.  
Niblett, W. R., B.A. Brist., B.Litt.  
Ox. Lectr.

*Engin., Mechanical, Marine and Civil, v. also Nav. Arch.*

Hawkes, C. J., M.Sc., M.I.N.A.,  
M.I.Mech.E. Prof.  
Morrow, J., T.D., M.Sc. Manc. and  
Durh., D.Eng. Liv. Reader.  
Hardy, G. F., M.Sc. Lectr.  
Dixon, J. T. H., M.Sc. Lectr.  
Martin, H. E. L., B.Sc. Brist. and  
Lond. Lectr.  
Hogg, A. H. A., M.A. Camb.  
Lectr.  
Talbott, A. C., M.Sc. Birm. Lectr.  
O'Grady, S. C., B.A., B.A.I. Lectr.

Beeley, E. W., M.Sc.Tech. Manc.  
Lectr.

*Engineering, Electrical*

Prescott, J. C., D.Eng. Liv. Prof.  
Dickinson, J., M.A. Ox., M.Eng.  
Sheff., M.I.E.E. Lectr.  
Williams, Emrys, B.Eng., Ph.D.  
Liv. Lectr.

*English*

Renwick, W. L., M.A., D.Litt  
Glas., B.Litt. Ox., D. ès L.  
Bordeaux J. Cowen Prof.  
Wragge, Sybil, M.A. Lectr.  
Elmes, R. S., M.A. Camb. Lectr  
Orton, H., M.A., B.Litt. Ox.  
Lectr.

*French, v. Modern Langs.*

*Geography*

Daysh, G. H. J., B.Litt. Ox. Lectr.  
Morris, F. G., M.A. Ox. and Lond. „  
Peel, R. F. E. W., B.A. Camb. „

*Geology, v. also Crystallography*

Hickling, H. G. A., D.Sc.  
Manc., M.Sc., F.R.S., F.G.S.,  
M.I.Min.E.

J. B. Simpson Prof.  
Mockler, G. S., B.Sc. Manc. Lectr.  
Raistrick, A., M.Sc., Ph.D. Leeds,  
F.G.S. Lectr.  
Tomkeieff, Serge, M.Sc. Lectr.

*German, v. Mod. Langs.*

*History, Modern*

[Prof.  
Morison, J. L., M.A., D.Litt. Glas.  
Bell, H. E., B.A. Camb. Lectr.  
Tomkeieff, Mrs. O. G., M.A., LL.B.  
Camb. Lectr.

*History, Ancient, v. Classics*

*Law*

Johnston, T. K., M.A., LL.M.  
Camb. Lectr.  
Charlesworth, J., LL.D. Lond.  
Asst. Lectr.

*Mathematics*

Havelock, T. H., M.A. Camb.,  
D.Sc., F.R.S.  
Prof. and Director of  
Dept.



Goldsbrough, G. R., D.Sc., F.R.S.  
(Dynamical Astron.) Prof.  
and Reader.

Caunt, G. W., M.A. Camb. and  
Durh., M.Sc. Reader.

Colborne, D. C., M.A. Camb. Lectr.

Miles, W. H., B.A. Ox. Lectr.

Mulholland, H. P., M.A., Ph.D.,  
Camb. Lectr.

### *Metallurgy*

Smythe, J. A., D.Sc. Durh., Ph.D.  
Gött. Wm. Cochrane Lectr.

Pearson, C. E., M.Met. Sheff. „

### *Military Science*

Sheffield, Capt. O. F., B.A. Ox.  
Lectr.

### *Mining*

Poole, Granville, B.Sc. Birm.,  
F.G.S., M.I.M.E.

Milburn Prof.

Whetton, J. T., M.C., M.Sc. Leeds,  
M.I.M.E. Lectr.

Wedgwood, A., M.Sc., M.I.M.E.  
Lectr.

Mason, G. A., M.B., B.S., F.R.C.S.  
(First Aid) Pt.-time Lectr.

### *Modern Languages*

Girdlestone, C. M., M.A. Camb.,  
L. ès L. Paris (French)

Prof. and Director of Dept.

Lectrs. :

Macgregor, Lilius, M.A. Edin. and  
Durh., D. de l'U. Gren. (Fr.).

Vallette, Jean, L. ès L. Paris (Fr.).

Hill, Doris W., M.A. Camb., L. ès  
L. (Fr.).

Tomlinson, Mme. (Fr.).

Manson, J., M.A. Edin. (Spanish).

Mennie, D. M., M.A. Aberd.,  
D.Phil. Kiel (German).

Spink, G. W., M.A. Leeds, Ph.D.  
Edin. (German) Temp. Lectr.

### *Music*

Newman, S. T. M., B.A. Ox.,  
F.R.C.O. Lectr.

### *Naval Architecture*

Abell, Sir Westcott S., K.B.E.,  
R.C.N.C. (retd.), M.Eng.,  
M.Inst.C.E. Prof.

Scott, J. L., M.Sc., M.I.N.A. Lectr.

### *Philosophy, Mental and Moral*

Reid, L. A., M.A., D.Litt. Edin.,  
Ph.D. Wales Prof.

Emmet, Dorothy M., M.A. Ox. (to  
30.9.38) Lectr.

### *Physics*

Curtis, W. E., D.Sc. Lond.,  
A.R.C.S., D.I.C., F.R.S.,  
F.R.A.S.

Prof. and Director of Dept.

Todd, G. W., M.A. Camb., D.Sc.  
Birm., M.Sc., F.Inst.P.,  
F.P.S.L. (Expl. P.) Prof.

Bullerwell, J. W., M.Sc. Lectr.

Richardson, E. G., B.A., Ph.D.,  
D.Sc. Lond. Lectr.

Wood, J. F., M.Sc. Lectr.

Darbyshire, O., M.Sc. Manc. „

### *Physiology, v. Med.*

### *Religious Knowledge*

Fletcher, Rev. M., M.A. Camb.  
and Durh., M.Sc., F.G.S.

Lectr.

### *Secretarial Practice*

Arkless, J. C., A.C.I.S. Lectr.

### *Zoology, v. also infra Agric.*

Hobson, A. D., M.A. Camb. Prof.

Bartlett, Mrs. Olga M., M.Sc.,  
M.Ed. Lectr.

Day, J. H., B.Sc. S.A., Ph.D. Liv.  
Lectr.

Maclagan, D. S., D.Sc. Edin.  
Lectr.

Steel, A., M.Sc. Wales Lectr.

Storror, B., M.Sc.

Naturalist at Marine Lab.

Bull, H. O., B.Sc., Ph.D. Lond.  
Biologist at Marine Lab.

Cowan, Mrs. Dorothy  
Librarian at Marine Lab.

### *Agriculture and Rural Economy*

#### *Agriculture*

Hanley, J. A., A.R.C.S. Lond.,  
Ph.D. Munich Prof.

Wheldon, R. W., D.Sc. Lectr.

Pawson, H. C. Lectr.

*Agric. Botany*

Harrison, Helena H., M.Sc. Lectr.

*Agric. Chemistry*

Thomas, Brynmor, M.Sc., A.I.C.  
Adviser.

Hall, A. A., M.Sc. Liv., Manc., and  
Durh., Ph.D. Jena, F.I.C.

Lectr.

Thompson, F. C., B.Sc.  
Research Asst.

*Agric. Economics*

Dinsdale, D. H., M.A. Adviser.

Roy, G. T., B.A. (Econ.) Brist.  
Tech. Asst.

Temperton, H., B.Sc.  
Student Asst.

*Agric. Mycology*

Bennett, F. T., B.Sc. (Agr.), Ph.D.  
Lond. Adviser.

*Agric. Surveying*

Adam, D. T., B.Sc. (Agr.) Aberd.,  
N.D.A., F.S.I. Lectr.

*Agric. Zoology*

Gray, R. A. H., M.A., B.Sc. (Agr.)  
Aberd., M.Sc. Adviser.

*Dairy Bacteriology*

Westwater, C. H., M.A., B.Sc.  
(Agr.) Glas., N.D.A., N.D.D.  
Adviser.

*Veterinary Science*

Stewart, W. L., M.R.C.V.S.  
Investigation Officer.  
Ponsford, Annie P., B.A. Camb.,  
Ph.D. Lond. Research Asst.

**Medicine**

*Anæsthetics*

Clinical Tutors :

Ayre, T. P., L.R.C.P., M.R.C.S.  
Campbell, L. M. R., M.A., M.B.,  
Ch.B. St. And.

Davidson, M. H. A., M.D.  
Markham, H. H., M.B., B.S.  
Murray, J. L., M.B., B.S.  
Osselton, E. W., M.B., B.S.

Peet, Elsie L., M.B., B.S., L.D.S.  
Phillips, W. J., B.Sc., M.B., B.S.,  
D.A.

Seymour, W., M.B., B.S.

*Anatomy*

Green, R. B., M.B., B.S. Lond.,  
M.A., F.R.C.S. Prof.

Short, J., M.A. Ox., M.B., B.S.  
Lectr.

Spencer, R., B.Sc., M.B., Ch.B.  
Manc. Demr.

Lectrs. in Appl. A. :

Lickley, J. D., M.D. Glas. (Med.).  
Gilmour, J., M.B., M.S., F.R.C.S.  
(Surg.).

*Bacteriology*

Dunlop, E. M., M.C., M.D. Glas.  
Prof.

Elliot, J. S., M.B., Ch.B. Edin.,  
D.P.H. Demr.

*Biology (for students of Med.)*

Beadle, L. C., M.A. Camb. Lectr.  
Booth, F. A., B.A. Camb. Demr.

*Chemistry in relation to Medicine,  
and Bio-Chemistry*

Saunders, J. A., M.Sc., Ph.D.  
Lectr.  
Elliott, F. J., M.Sc., Ph.D., A.I.C.  
Demr.

*Children, Diseases of*

Lickley, J. D., M.D., Ch.B. Glas.  
Temp. Lectr.

*Dentistry, v. infra*

*Dermatology*

Thompson, S., M.D., B.S. Lectr.

Clinical Teachers :

Thompson, S., M.D., B.S. (also  
V.D.)  
Bolam, R. Mason, M.A., M.B.,  
B.Ch. Camb., L.R.C.P.,  
M.R.C.S.

*Electrotherapeutics and Radiology*

Clinical Teachers :

Davidson, S. W., M.D., B.S.,  
M.R.C.P.

Ramage, D., M.D., Ch.B. Manc.,  
D.M.R.E. Liv.

*Hygiene*, v. Pub. Health

*Laryngology, Otology, and Rhinology*

Wilson, W. F., M.B., B.S.  
(and Clinical) Lectr.

Whillis, R., M.A., M.B., B.Ch.  
Camb., F.R.C.S.E.  
Cln. Teacher

*Medical Jurisprudence*

Stephenson, G. E., B.Sc., M.D.,  
B.S. Lectr.

*Medicine, Principles and Practice*

Hume, W. E., C.M.G., M.A., M.D.,  
B Ch. Camb., F.R.C.P. Prof.

Hall, G., C.M.G., M.D. Lond.,  
B Sc., F R.C.P. Lectr.

Drummond, H., M.D., B.S. Lectr.

Clinical Teachers in Med. .

Hume, W. E. (v. *supra*).

Drummond, H. (v. *supra*).

Hall, G. (v. *supra*).

Nattrash, F. J. (v. Therap.).

Spence, J. C., M.C., M.D., F.R.C.P.

Armstrong, C. N., M.B., B.S.,  
B.Hy., D.P.H., M.R.C.P.

Ogilvie, A. G., M.B., B.S., M.R.C.P.

Ungley, C. C., M.D., B.S., M.R.C.P.

Clinical Tutors :

Davison, G., M.D., B.S.

Kellett, C. E., M.A., M.D., B.Ch.  
Camb., M.R.C.P.

Boon, T. H., M.B., B.S.

Miller, F. J. W., M.B., B.S.

*Midwifery and Gynaecology*

Murray, E. F., M.D. St. And.,  
F.R.C.S., F.C.O.G. Prof.

Evers, H. H., M.B., M.S., F.R.C.S.,  
F.C.O.G. Lectr.

Clinical Teachers :

Murray, E. F. (v. *supra*)

Evers, H. H. (v. *supra*).

Campbell, L. Mabel R., M.A.,  
M.B., Ch.B. St. And.

Weeks, L. M., M.C., M.A., M.D.,  
B Ch. Camb.

Stabler, F. E., M.D., B.S., F.R.C.S.

Hunter, W., M.B., B.S.

Davison, H. Glen, M.D., B.S.

*Ophthalmology* [Lectr.

Arkle, J. S., M.B., B.S., F.R.C.S.E.

Clinical Teachers :

Arkle, J. S.

Ingram, H. V., M.B., B.S.,  
M.R.C.S., D.O.M.S. Asst.

*Orthopædics* [Clin. Teacher.

Irwin, C. G., M.B., B.S., F.R.C.S.E.

Stanger, J. K., M.B., B.S., F.R.C.S.  
Cln. Teacher.

*Pathology*

McDonald, S., M.D. Edin., M.A.,  
F.R.C.P.E. Prof.

Thomson, J. G., M.B., Ch.B.  
Aberd. Lectr.

Herbert, Freda K., M.A. Camb.,  
M.B., B.S. Lond., M.R.C.S.,  
L.R.C.P. (P. Chem.) Lectr

Demrs. :

Stephenson, G. E., M.C., B.Sc.,  
M.D., B.S.

Lennox, B., M.B., B.S.

Spence, J. C. (v. Med., Cln ), (Med.  
Path.).

Wardill, W. E. M. (v. Surg., Cln ),  
(Surg. Path.).

Evers, H. H. (v. Midw.), (Gynæc  
Path.).

*Pharmacology*

Secker, J. (v. Physiol.) Lectr.

*Physiology*

Burns, David, M.A. Glas. and  
Durh., D.Sc. Glas. Prof.

Secker, J., M.Sc., L.R.C.P.,  
M.R.C.S. Lectr.

Henderson, Nellie, B.Sc. Lond.

Demr.

Elliott, F. J., M.Sc., Ph.D., A.I.C.  
Demr.

Davison, G., M.D., B.S., M.R.C.P.,  
D.C.H. (Cln. P) Demr.

*Psychological Medicine*

MacPhail, H. D., O.B.E., M.A.,  
M.D. Edin. Lectr.

*Public Health*

Charles, J. A., M.D., B.S., D.P.H.  
Lectr.

Public Health Laboratory:

Warren, S. H., M.R.C.S., L.R.C.P.,  
D.P.H. Director.

Congdon, Phyllis M., M.D., Dp.  
Bact., D.P.H. Asst.

*Surgery*

Willan, R. J., M.V.O., M.B., M.S.,  
F.R.C.S. Prof.

Pybus, F. C., M.B., M.S., F.R.C.S.  
Lectr.

Hodgson, N., M.B., M.S.,  
F.R.C.S.E. Lectr.

Clinical Teachers:

Willan, R. J. (*v. supra*).

Pybus, F. C. (*v. supra*).

Barclay, J. H., M.D., M.S., F.R.C.S.

Hodgson, N. (*v. supra*).

Hindmarsh, T. A., M.B., M.S.,  
F.R.C.S.

Gilmour, J., M.B., M.S., F.R.C.S.

Whyte, A. H., M.B., M.S., F.R.C.S.

Hewitson, W. A., M.B., B.S. Lond.,  
M.B., M.S., F.R.C.S.

Wardill, W. E. M., M.B., B.S.,  
F.R.C.S. (and Curator of  
Museum).

Brumwell, J., M.B., B.S., F.R.C.S.

Watts, W. P. T., M.B., M.S.,  
F.R.C.S.E.

Saint, J. H., M.S. Minn., M.D.,  
F.R.C.S., F.A.C.S.

Senr. Surgical Registrars:

Mason, G. A., M.B., B.S., F.R.C.S.

Logan, A., M.B., Ch.B. St. And.,  
F.R.C.S.

Surgical Tutors:

Raw, S. C., M.B., B.S.

Cohen, H., M.B., Ch.B. Edin.

Cowell, W., M.B., B.S.

Swinney, J., M.D.

Munro, A. H. G., M.B., B.S.

Rutherford, R. J., M.B., B.S.

*Therapeutics*

Nattrass, F. J., M.D., B.S.,  
F.R.C.P. Lectr.

*Venereal Diseases*

Thompson, S., M.D., B.S. Lectr.

*Dentistry*

*D. Anatomy*

Laing, A. M., L.D.S. Edin. Lectr.

*D. Anæsthetics*

Pool, J. Hope, M.D., B.S. Lectr.

*D. Histology*

Secker, J., M.Sc., L.R.C.P.,  
M.R.C.S. Lectr.

*D. Materia Med. and Therap.*

Davis, H., L.D.S. Glas. Lectr.

*D. Mechanics*

Tregarthen, G. G. T., L.D.S. Eng.  
(Prosthetic D.) Surgeon  
and Lectr.

*D. Metallurgy*

Lotinga, C., L.D.S. Edin. Lectr.

Long, J. J., L.D.S. Glas.  
Asst. Lectr. and Demr.

*D. Surgery and Pathol.*

Bradlaw, R. V., L.R.C.P. Lond.,  
M.R.C.S., L.D.S. Eng. Prof.

Essenhigh, R. W., L.D.S.  
Conservation Room Demr.

Vincent-Jones, C. E., B.D.S.  
Extraction Room Demr.

*Operative D. Surgery*

Reay, R. H., L.D.S., H.D.D.  
Edin. Lectr.

*Orthodontics*

Cooper, E. R., L.D.S. Edin.  
Lectr.

*Radiology*

Haswell, S. V., L.D.S. Edin. Lectr.

**Clinical Teachers in the Dental Hospital :**

Laing, A. M., L.D.S. Edin.  
 Gibbon, E., L.D.S. Eng.  
 Davis, H., L.D.S. Glas.  
 Cooper, E. R., L.D.S. Edin.  
 Haswell, S. V., L.D.S. Edin.  
 Long, J. J., L.D.S. Glas.  
 Chalmers, J., L.D.S.  
 Daniels, J. E., L.D.S.  
 Reay, R. H., H.D.D. Edin., L.D.S.  
 Smith, H. A., L.D.S.  
 Hutchinson, G. E., L.D.S.  
 Johnson, G., L.D.S.  
 Shafto, C. E., L.D.S.

**Earl Grey Memorial Lecturer**

1938—Sir Joseph Barcroft, C.B.E.,  
 M.A., D.Sc., F.R.S. Subject:  
*The dependence of the mind on  
 its physical environment.*

**William Henry Charlton Lecturer**

1937—Prof. J. D. Beazley, M.A.,  
 F.B.A. (Univ. of Oxford).  
 Subject: *Attic White Lekythoi.*

**Riddell Memorial Lecturer**

1937—Prof. F. M. Powicke, M.A.,  
 LL.D. (Univ. of Oxford).  
 Subject: *History and Religion* (3 lectures.).

**University Extension**

Director of Extra-Mural Studies  
 and Jt. Sec., Board of Extra-  
 Mural Studies: H. E. R.  
 Highton, M.A. Glas.

Tutor-Organizers for Cumberland  
 and Westmorland: T. G.  
 Jones, B.A. Wales, B.Sc.  
 Lond.; Agnes F. Young,  
 M.A. Liv.

## GENERAL INFORMATION

The University of Durham College of Medicine was originally founded in 1834 and became associated with the University of Durham in 1852. Armstrong College, Newcastle-upon-Tyne, was founded in 1871, as a part of the University of Durham. In 1937 the two Colleges were merged to form King's College, Newcastle-upon-Tyne, in the University of Durham.

**LIBRARY**, 132,768 vols., 38,727 pamphlets (including the Medical libraries). There are also departmental libraries. Access to Lit. and Philos. Society's 100,000 vols., and to library of N. of England Inst. M.M.E. Scientific periodicals subscribed for in co-operation with City Public Library. Special libraries: English Bibles from 1535; Heslop, English dictionaries (277 vols.); Kieper, fifteenth to eighteenth century printed books, mostly classics (600 vols.); Merz, philosophical, mathematical and general (3940 vols.); Spence Watson, early English texts (564 vols.); Oriental, with special reference to India (2762 vols. and 2082 pamphlets); Gilchrist, Agricultural (529 vols.); Gertrude Bell, Oriental (1963 vols.).

**MUSEUMS.** Anat., Hygiene, Mat. Med., Path., Dental, Zool., Geol., Mineral, Chem., Mining, Technological specimens.

**LABORATORIES** with special facilities for research in Engin. and Hydr., Elect. Eng. and Mining, and Experimental Phonetics; special branches of Chem., Physics, Geol., Bot., and Agric.; Marine Biol. (Dove Marine Lab., Cullercoats. See App. III. A. III.).

The Agric. Dept. undertakes the scientific control of Cockle Park, the Northumberland County Experiment Station, and has the use of other County and Crown estates for teaching, research, and demonstration purposes.

**ADMISSION.** See Appendix I.

**DEGREE COURSES.** Complete Courses for degrees in Arts, Architecture, Medicine, Surgery, Hygiene, Dental Surgery, Science, Applied Science, Law and Commerce, and for Univ. Diplomas in Education, Public Health, Psychiatry and the Univ. Licence in Dental Surgery.

Instruction in Clinical Medicine and Surgery is given in the Royal Victoria Infirmary (700 beds) and other hospitals; in Practical Midwifery and Clinical Gynaecology at the Princess Mary Maternity Hospital; in Clinical Dental Surgery in the Newcastle-upon-Tyne Dental Hospital. The Pathological Museum provides an exceptional collection of specimens prepared by modern methods. Post-graduate medical and dental teaching is supervised by committees representing the College and associated hospitals. Research facilities are available in the various departments.

The Applied Science courses are in Agriculture, Engineering (Mechanical, Marine, Civil, or Electrical), Naval Architecture, Mining, and Metallurgy. The Teachers' Training Dept. is available for both Elementary and Secondary School Work.

Under the Tutorial System, each student in faculties other than medicine is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests. The Dean of Medicine performs similar duties in the Medical School.

**COLLEGE DIPLOMAS.** Fine Art (4 yrs.), Principles of the Teaching of Art (1 yr. after Fine Art Diploma or other approved qualification), Architecture (5 yrs.), Town Planning (1 yr. after Certificate), Economics, History, and Political Science (2 yrs.), Agriculture (3 winters of 2 terms), Mining (3 yrs.), Commerce (2 yrs., evening students only), Public Administration (3 yrs., evening students only).

For admission to study for the College Diploma (i.) in Agric., Mining, or Commerce, Economics, History, and Political Science, Public Administration, or for the Certificate in Fine Art, no regular entrance examn. is required; (ii.) in Fine Art an entrance examn. accepted for the purpose of matriculation.

**COLLEGE CERTIFICATES.** Fine Art (4 yrs.), Architecture (5 yrs.), Town Planning (2 yrs.).

Short courses are provided in Agriculture (10 weeks).

**FEES:** Faculties other than Medicine:

Matriculation exemption, £2; Registration (Degree students and some others), £2 p.a.; Students' Societies and University Union, £3:13:6 p.a. Tuition for degree courses: B.A., B.Com., or LL.B. (3 yrs.), £30 p.a. B.Sc. in Pure Science or Agriculture (3 yrs.), £35 p.a.; B.Sc. in Engineering, Naval Architecture, Mining, or Metallurgy (3 yrs.), £40 p.a.; B.Arch. (5 yrs.), 1st, 2nd, and 3rd yrs., £30 p.a., 4th and 5th yrs., £22:10s. p.a. Post-graduate study and research, £7:10s., £12, or £8 p.a., according to course taken. Tuition for diploma courses: Theory and Practice of Teaching (1 yr. post-graduate), £35; Fine Art (4 yrs.), £16 p.a.; Principles of the Teaching of Art (1 yr. after Fine Art Diploma or other approved qualification), £25; Architecture (5 yrs.), 1st, 2nd, and 3rd yrs., £25 p.a., 4th and 5th yrs., £20 p.a.; Town Planning (1 yr. after Certificate), £16; Economics, History, and Political Science (2 yrs.), £10 p.a.; Agriculture (3 winters of 2 terms), £22:10s. p.a.; Mining (3 yrs.), £40 p.a.; Commerce (2 yrs., evening students only), £10 p.a.; Public Administration (3 yrs., evening students only), £3 p.a. per subject. Tuition for certificate courses: Fine Art (4 yrs.), £16 p.a.; Architecture (5 yrs.), £10 p.a.; Town Planning (2 yrs.), £4 or £6 p.a.

Bachelors' Examination and Degree fees: £11:10s.

**FEES: Medical School:**

Tuition: M.B., B.S. (5 yrs.' course), £236:2:6; B.D.S. (5 yrs.' course), £274:8s.; L.D.S. (4 yrs.' course), £253:3s. (in each case including all hospital fees and subscriptions to Students' Union). Examinations: Pre-Registration, £3:3s.; M.B., B.S., £30; M.D., £5; M.S., £5; D.Ch., £20; B.Hy., £12:12s.; D.P.H., £12:12s.; D.Hy., £20; D.Psy., £10:10s.; B.D.S., £23; M.D.S., £5; L.D.S., £15:10s. Degrees: M.B., £6:6s.\*; B.S., £6:6s.; M.D., £10; M.S., £6:6s.; D.Ch., £10; B.Hy., £6:6s.\*; D.P.H., £3; D.Hy., £10; D.Psy., £3; B.D.S., £6:6s.\*; M.D.S., £6:6s.; L.D.S., £3; Ph.D., £5\*. (When a degree marked \* is an initial degree at the University the sum of 10s. is added.)

**SCHOLARSHIPS.** Entrance: Open, £60-£95 p.a. Some of £10-£60 restricted to students of medicine and agriculture. Various scholarships and prizes awarded during degree and diploma courses.

**FELLOWSHIPS, ETC.** (Postgraduate). £300 for 1 yr. (Earl Grey Memorial), open to a graduate in Sci. or Commerce; £180 every 3rd yr. (Rutherford Morison), for Surgery; £150 for 1 yr. (Parker Brewis Dental Research Scholarship); £100 for 1 yr. (Sir W. H. Stephenson Studentship), open to a grad. in the Fac. of Arts; £150 for 1 yr. (William Black Noble Memorial Studentship), open to a grad. in the Facs. of Com., Arts, or Sci.; £100 for 1 yr. (Pemberton Studentship), open to a grad. in Sci.; £75 (1), £50 (2) studentships for 1 yr., open to grads. of any Fac.; £100 (6) for 1 yr., open to grads. of any Fac.; £75 for 1 yr. (Philip Buckle Memorial Scholarship), open to grads. of the Dept. of Agric. (including Agric. Zool.); £25 for 1 yr. (Luke Armstrong) for Compar. Pathol.; £50 for 1 yr. (Hamilton Drummond), for Clin. Surg.; £15 for 1 yr. (Macpherson Prize), open to grads. in Med. For particulars of the Johnston Chemical Studentship and Prize, *see* App. II. 18.

**RESEARCH FUNDS.** An endowment of £15,275, established in 1923, is administered by a Standing Committee, which allocates the interest of the fund as grants in aid of specific investigations by trained workers rather than for training persons in research. There are also available at the Medical School several funds for medical and surgical research—Stephen Scott, Heath, Beaverbrook, William Dodds.

**RESIDENCE.** Henderson Hall (Warden: A. A. Hall, M.Sc., Ph.D.) for 79 men, fees £65 p.a.; Easton Hall (Warden: Miss C. M. Hawthorn, M.A., B.Sc.) particularly for women in training under Board of Education's regulations for the Training of Teachers, fees £64 p.a.

**UNIVERSITY EXTENSION.** Public lectures in the College include the annual Earl Grey Memorial and W. H. Charlton lectures, occasional lectures and short courses (winter programme issued in Oct.), lectures in French (Alliance Française), and popular evening lectures. Short courses in various centres in Agriculture and Forestry. Tutorial classes in various centres (most of the tutors are regular members of college staff).

**THE YEAR 1936-37****College of Medicine**

**BENEFACTIONS.** Mr. W. Parker Brewis, £5000 to establish a Dental Research Scholarship. Anonymous, £1000 towards cost of a new Pavilion at the College Athletic Ground.

**RETIREMENTS.** Sir Robert Bolam (Diseases of Skin); H. M. Johnston (Clin. Surg.).

RESIGNATIONS. J. I. M. Black (Path.) ; J. A. McKeon (Med. Tutor) ; T. Moore, S. Y. Feggetter, L. M. Snaith, J. A. Weir (Surg. Tutors) ; G. E. Wilson (Dental Mechs. and Prosthetics) ; S. C. Vincent (Clin. Dent. Surg. and Extraction Room Surgeon).

DEATH. F. G. Armstrong (Anæsthetics).

STUDENTS. Full-time, 402, including 13 graduates. Part-time, 119, including 110 graduates.

DEGREES AND DIPLOMAS OBTAINED. M.B., B.S., 42 ; M.D., 12 ; M.S., 3 ; B.Hy., 11 ; B.D.S., 2 ; L.D.S., 7 ; D.P.H., 12.

### Armstrong College

BENEFACTIONS. Late Francis Priestman, £1000 for a scholarship at the Coll. for sons and daughters of clergymen of the Church of England ; late G. E. Henderson, £568 : 2s. for land ; anonymous, £334 : 16 : 7 for new gates at Cochrane Park ; Messrs. A. Reyrolle & Co., Ltd., £250 for Elect. Engin. ; J. R. D. Bell Bequest, £50 (balance) ; trustees of J. H. Holmes Memorial Fund, £505 : 9s. capital and income to provide a series of memorial lectures for young people. To Library : Thomas Hacking, 1800 vols. on agricultural subjects ; Executors of the late George Grey Butler, 1000 vols. (mainly classical and oriental) ; also valuable gifts of books from Viscount Runciman, Prof. J. Wight Duff, Mr. J. H. Burn, and others.

DEATH. Robert N. Brown (Architecture).

RETIREMENTS. Sir William Marris, Principal, on appointment of Lord Eustace Percy as Rector ; Prof. W. M. Thornton (Elect. Engin.) and R. Bertram, Master of Design, on reaching the age fixed for retirement.

RESIGNATIONS. Dr. A. B. C. Cobban on apptment. as Reader in French Hist., Univ. of London ; Miss E. L. Melville (Education) ; J. S. Patrick, on apptment. to post with the Asiatic Petroleum Co. ; Miss Kathleen Tydeman (Fine Art) ; W. G. Waddell, on apptment. to Chair of Classics, Univ. of Cairo ; Dr. J. A. Wilcken, on apptment. to post with the Institution of Elect. Engineers.

EXTENSION WORK. Public lectures in the College included : two French lectures under the auspices of the Alliance Française and 2 others in French ; 2 in German ; 1 in Italian ; the Earl Grey Memorial Lecture on " The Building of Molecules," by Prof. Robert Robinson ; the William Henry Charlton Lecture on " Mantegna and Humanism in Fifteenth Century Italy," by Prof. W. G. Constable ; and a series of Evening lectures throughout the winter by prominent authorities from outside the College and by various members of the Staff. Extra-mural Classes : Advanced Tutorial Class 1, students 9 ; Tutorial Classes 25, students 428 ; Extension Courses 30, students, 573 ; one short University Extension Course, students 21 ; total : classes 57, students 1031.

STUDENTS. Full-time, 809, including 135 graduates. Part-time, 515, including 25 graduates.

DEGREES OBTAINED. B.A., 54 ; M.A., 12 ; M.Litt., 2 ; B.Arch., 2 ; B.Com., 9 ; M.Com., 1 ; M.Ed., 1 ; LL.B., 8 ; B.Sc. (Pure Sci.), 39 ; M.Sc. (Pure Sci.), 6 ; B.Sc. (Applied Sci.), 47 ; M.Sc. (Applied Sci.), 9 ; Ph.D. (Pure Sci.), 7 ; Ph.D. (Applied Sci.), 2.



# UNIVERSITY OF LEEDS

Founded 1904

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CHANCELLOR—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G.,  
G.C.V.O., LL.D.

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Edin., LL.D., J.P., Cav. Off. Corona d'Italia.

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TREASURER—Hon. R. E. BECKETT.

REGISTRAR—A. E. WHEELER, M.A.

ACCOUNTANT—E. J. BROWN, B.Com. Lond.

CLERK TO THE SENATE—W. R. MOULE, M.A. Camb.

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Telephone : Registrar—Leeds 20251.

## TEACHING STAFF

### *Agriculture, v. infra*

#### *Anatomy*

Durward, A., M.D. N.Z. Prof.

Boyd, G. I., M.D. Edin., F.R.C.S.

Lectr.

Quale, G., M.B., Ch.B. Demr.

Davidson, W., M.B., Ch.B. Demr.

Lamming, R. L., M.Sc., M.B.,  
Ch.B. Demr.

Hon. Demrs. :

Morton, W. C., C.B.E., M.A., M.D.  
Edin.

Broomhead, R., M.B., Ch.B.

Gillies, J. C., M.B., Ch.B., F.R.C.S.  
Edin.

Helmsley, F. R. W., M.B., Ch.B.

Keidan, I. J., M.B., Ch.B.

### *Bio-Chemistry, v. Physiol.*

#### *Botany*

Priestley, J. H., D.S.O., B.Sc.  
Lond., F.L.S. Prof.

Pearsall, W. H., D.Sc. Manc.,  
F.L.S. Reader.

Scott, Lorna I., M.Sc. Lond. Lectr.

Asst. Lectrs. and Demrs. :

Sledge, W. A., Ph.D.

Preston, R. D., Ph.D.

Wright, A. S. C., B.Sc.

Pt.-time Temp. Demr.

Grist, Mrs., B.Sc. Lond. Hon. Demr.

Mattinson, Kathleen M., B.Sc. (R.).

Bengry, R. P., B.Sc. (R.).

### *Chemistry, v. also Technology—*

#### *Colour Chemistry.*

Whytlaw-Gray, R. W., O.B.E.,  
Ph.D. Lond., F.I.C., F.R.S.

(Dean, Fac. of Sci.) Prof.

Usher, F. L., D.Sc. Lond.

(Colloid C.) Reader.

Lowson, W., B.Sc. Lond. and  
Leeds, F.I.C. (Analyt. C.)

Lectr.

Hume, J., B.Sc. Edin., A.I.C.

Lectr.

Asst. Lectrs. and Demrs. :

Clark, C. H. D., D.Sc. Lond.,  
A.R.C.S., D.I.C.

Garrick, F. J., M.A. Ox.

(R.) = Research Asst.

Colvin, J., B.Sc., Ph.D. Liv.  
 Bradley, R. S., M.A. Camb. Demr.  
 Demrs. (Pt-time) :  
 Webb, K. R., B.Sc. Lond.  
 Slack, G. W., Ph.D.  
 Whitaker, H., M.Sc. (R.).

### *Chemistry, Organic*

Challenger, F., D.Sc. Birm., B.Sc.  
 Lond., Ph.D. Göttingen,  
 F.I.C. Prof.  
 Baker, J. W., D.Sc. Lond., F.I.C.  
 Lectr.  
 Burton, H., Ph.D., D.Sc. Lond.,  
 M.Sc. Sheff., F.I.C. Lectr.  
 Wightman, W. A., M.A. Ox. Lectr.  
 Asst. Lectrs. and Demrs :  
 Goss, F. R., Ph.D. Lond.  
 Shoppee, C. W., Ph.D., D.Sc.  
 Lond.  
 Rothstein, E., Ph.D. Lond.,  
 A.R.C.S. Demr. and (R.).

### *Chemistry, Physical*

Dawson, H. M., B.Sc. Lond., Ph.D.  
 Gies, D.Sc., F.R.S. Prof.  
 Smith, G. F., Ph.D. Wales and  
 Camb. Lectr.  
 Asst. Lectrs. :  
 Belton, J. W., Ph.D. Liv.  
 Spence, R., Ph.D. Durh.  
 Wild, W., B.Sc., Ph.D., A.I.C.  
 Demr.  
 Smith, Mrs. G. F., Ph.D.  
 Hon. Demr.

### *Classics*

Edwards, W. M., M.C., M.A. Ox.  
 (Greek) Prof.  
 ..... (Latin) Prof.  
 ..... (Archæol.) Lectr.  
 Bibby, E. E., M.A. Leeds and  
 Camb. (Lat.) Lectr.  
 Asst. Lectrs. :  
 Binyon, D. E. F., B.A. Ox. (Lat.).  
 White, K. D., B.A. Liv. and Camb.  
 (Gk.).

Newell, A. N., B.A. Camb. (Lat).  
 Symonds, Rev. H. E., M.A. Ox  
 (Lat.) Pt-time Lectr.

### *Commerce, v. Economics*

### *Dentistry, v. infra*

### *Economics*

Jones, J. Harry, M.A. Wales Prof.  
 Richardson, J. H., M.A. Camb.,  
 Ph.D. Lond.  
 (Indust. Relations).  
 Montague Burton Prof.  
 Shimmin, A. N., M.A. Manc. Lectr.  
 Dickinson, H. D., M.A. Camb. (Ec.  
 Hist.) Lectr.  
 Dower, R. S., M.A. Camb. (Social  
 Organization) Lectr.  
 McCarmick, A., A.C.A. (Acctcy.)  
 Lectr.  
 MacDougall, G. D. A., B.A. Ox.  
 Asst. Lectr.  
 Cartwright, Mrs., B.Sc. Lond. (R.).  
 Guénault, P. H., M.A. Sheff. (R.).  
 Brown, Ida E., M.A. Sheff. (Soc.  
 Work) Tutor.

### *Education*

Smith, F., B.A., B.Sc. Manc., M A  
 Camb., Ph D. Wales. Prof.  
 Welpton, W. P., B.Sc Lond.  
 Lectr. and M. of Method.  
 Monahan, A. J., M.A. (Hist. of E.)  
 Lectr.  
 Wynn Jones, Ll, M A. Ox., Ph.D.  
 Leip. (Expl. Psychol.) Lectr.  
 Curtis, S. J., Ph.D. Lond.  
 Lectr. in Educn. and  
 Asst. M. of Method.  
 Blackburn, Eliz. M., M.A.  
 Lectr. and M. of Method.  
 Robson, Winifred F., M.A. Liv.  
 Asst. M. of Method.  
 Asst. Lectrs. :  
 Holgate, Jane, B.A.  
 Newcomb, Edith, M.A. Columbia.  
 Smith, C. A., B.A. Lond.  
 6 Pt-time Assts.

(R.) = Research Asst.

*Engineering, Civil and Mech.*

- David, W. T., M.A., Sc.D. Camb.,  
D.Sc. Wales, M.I.C.E.,  
M.I.Mech.E. Prof.  
Evans, R. H., M.Sc. Manc., Ph.D.  
Lectr.  
Richardson, S. G., M.Sc. Lectr.  
Caton, E. E., M.Sc. Asst. Lectr.  
Leah, A. S., Ph.D. Asst Lectr.  
Pugh, B., B.Sc. Wales Demr.  
Weinberg, S., B.Sc. Manc. Demr.  
Wood, R. H., Ph.D. Demr.

*Engineering, Elec.*

- Wheatcroft, E. L. E., M.A. Camb.  
(Dean, Fac. of Tech.) Prof.  
Frensch, W. E., M.I.E.E. Lectr.  
Stuart, W. S., M.Eng. Liv.  
Asst. Lectr and Demr.

*English Lang. and Lit.*

- Dobrée, Bonamy, O.B.E., M.A.  
Camb. (Lit.) Prof.  
Dickins, B., M.A. Camb.  
(Lang.) Prof.  
Childe, W. R., M.A. Ox. Lectr.  
Ross, A. S. C., B.A. Ox. Lectr.  
Turville-Petre, E. O. G. (Mod. Ice-  
landic) Hon. Lectr.  
Asst. Lectrs. :  
Wilson, R. M., M.A.  
Jefferson, D. W., B.A.  
Muir, K., B.A. Ox.

*French and Romance Philol.*

- Barbier, P., M.A. Lond.  
(Dean, Fac. Econs. and  
Comm) Prof.  
Gunnell, Doris, M.A., D. de l'U.  
Paris Lectr.  
Inebnit, J. P., L. ès L. Neuchâtel  
Lectr.

## Asst. Lectrs. :

- Benn, T. V., B.A., Ph.D.  
Hainsworth, G., M.A., D. de l'U.  
Paris.  
Delaney, R., B.A., Ph.D. (Temp.).

*Geography*

- Williamson, A. V., M.A. Liv.  
Reader and Hd. of Dept  
Clark, K. G. T., B.A. Lectr.  
Davies, A., M.Sc. Wales  
Asst. Lectr.  
i Asst.

*Geology*

- Gilligan, A., B.Sc. Wales, D.Sc.,  
F.G.S., M.I.M.E. Prof.  
Versey, H. C., D.Sc., F.G.S. Lectr.  
Hudson, R. G. S., D.Sc. Lond.,  
F.G.S. Lectr.  
Hemingway, J. E., Ph.D.  
Demr. and (R.).

*German Lang. and Lit.*

- Gough, C. E., Ph.D. Basle Prof.  
Caldwell, M. Constance, B.A.  
Lectr.  
Peacock, R., M.A., Ph.D. Marburg  
Asst. Lectr.

*Hebrew, v. Theol. Studies**Histology, v. Physiology**History*

- Thompson, A. Hamilton, C B E.,  
M.A. Camb., D.Litt. Durh.,  
F.B.A., F.S.A., Hon.  
A.R.I.B.A. (Dean, Fac. of  
Arts) Prof  
Turberville, A. S., M.C., M.A.,  
B.Litt. Ox. (Mod. H.) Prof.  
Dainton, A. H., M.A. Ox. Lectr.  
Richardson, G. W., M.A. Lond.  
(Anc. H.) Lectr.  
Dickinson, J. C., B.A. Ox.  
Asst. Lectr.  
Hendy, P. (H. of Painting)  
Hon. Lectr.

*History of Science*

- Gregory, J. C., B.Sc. Lond., F.I.C.  
Hon. Lectr.

*Italian Lang. and Lit.*

- Ungaro, A., D.Sc. Rome Lectr.

*Law*

- Hughes, J. D. I., M.A., B.C.L. Ox.  
(Dean, Fac. of Law) Prof.  
Haggen, G. L., M.A., B.C.L. Ox.  
Reader.  
Stone, J., B.A., D.C.L. Ox., S.J.D.  
Harv., LL.M. Lectr.  
Lectrs. (Pt.-time):  
Burrill, H. R., LL.B.  
Archibald, M., LL.B.  
Bradley, D. W., LL.B.  
Price, P. S., B.A. Ox.  
Thackray, H. E., B.A. Camb.  
Wade, D. W., M.A., LL.B. Camb.

*Mathematics*

- Milne, W. P., M.A. Camb., M.A.,  
D.Sc. Aberd. Prof.  
Brodetsky, S., M.A. Camb., Ph.D.  
Leip. (Appd. M.) Prof.  
Gabriel, R. M., M.A. Camb.  
(Math. Analysis) Reader  
Lectrs.:  
Gilham, C. W., M.A. Camb., B.Sc.  
Lond.  
Smeal, G., M.Sc. Melb. (Stat.  
Math.).  
Asst. Lectrs.:  
Ursell, H. D., M.A. Camb.  
Mitchell, K., B.A. Camb. (Appd. M.).

*Medicine and Surgery, v. infra**Metallurgy, v. Technology**Mining*

- Atkinson, F. S., M.Eng. Sheff.,  
M.I.M.E. Prof.  
Lectrs.:  
Brown, T., M.Sc., M.I.Min.E.  
(Mine Surveying).  
Crossland, J., M.Sc., M.I.Min.E.

*Music*

- Allam, E. W., M.A. Camb., B.Mus.  
Lond., A.R.C.M. Lectr.  
Orr, R. K., B.A., Mus.B. Camb.  
Asst. Lectr.

*Philosophy*

- Harvey, J. W., M.A. Ox. Prof.

- MacIver, A. M., M.A. Ox. Lectr.  
Curtis, S. J., Ph.D. Lond.  
Hon. Lectr.

*Physics*

- Whiddington, R., M.A., D.Sc.  
Camb., F.R.S. Cavendish Prof.  
Stoner, E. C., B.A., Ph.D. Camb.,  
F.R.S. Reader.  
Long, F. A., B.Sc. Lond. Lectr.  
Ewles, J., M.A. Camb. Lectr.  
Asst. Lectrs. and Demrs.:  
Brindley, G. W., M.Sc. Manc.  
McDougall, J., M.A., Ph.D. Camb.  
Atkins, B. E., B.Sc. Birm.  
Temp. Asst. Lectr.  
Roscoe, R., B.Sc., Ph.D. Lond.  
Demr.

- Swift, W., B.Sc., Ph.D. (R.).

*Physiology*

- Hemingway, A., M.Sc., M.B.,  
Ch.B. Prof.  
Bain, W. A., B.Sc., Ph.D. Edin.  
(Pharmacol.) Reader.  
Winfield, G., M.A. Camb. Lectr.  
Happold, F. C., D.Sc., Ph.D.  
Manc. (Bio-Chem.) Lectr.  
Lupton, A. W., M.C., Ph.C., M.P.S.  
(Pharmacy and Pharm.  
Chem.) Lectr.  
Noltie, H. R., M.A., B.Sc. Aberd.  
Lectr.  
Hobson, W., B.Sc., M.B., Ch.B.  
(Physiol. and Hyg.) Pt.-  
time Lectr.

- Evans, W. C., M.Sc., Ph.D. Wales  
(Bio-Chem.) Demr.  
Barclay, J. A., M.A., M.B., Ch.B.  
Demr.  
Ludwig, C., M.B., Ch.B. Aberd.  
Demr.  
Pyrah, L. N., M.Sc., M.B., Ch.M.  
Hon. Demr.  
Crooks, H. E., Ph.C., M.P.S.  
(Pharmacy) Asst.

*Russian Lang. and Lit.*

- ..... Prof.  
Kolni-Balozky, J. Lectr.

(R.) = Research Asst.

*Spanish Lang. and Lit.*

.....

Penzol, P., L.D. Oviedo

Actg. Hd. and Lectr.

de Irizar, Agustin Asst. Lectr.

*Technology, v. infra**Theological Studies*

James, Rev. E. O., D.Litt. Ox.,

Ph.D. Lond., F.S.A. (Philos.  
and Hist. of Religion) Prof.Schofield, Rev. J. N., B.D. Lond.,  
M.A. Camb.

(O.T. Studies and Hebrew)

Lectr.

Number of Recognized Teachers  
in local Theological Colleges.*Zoology, v. also Agric. [Prof.*

Spaul, E. A., D.Sc., Ph.D. Lond.

Lloyd, Ll., D.Sc.

(Entom. &amp; Protozool.) Reader.

Asst. Lectrs. &amp; Demrs. :

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Kerr, T., M.A. Glas.

King, Mrs. W. O. R., B.Sc.

Asst. Lectr. Pt.-time.

Bullough, W. S., B.Sc. Demr.

Vincent, Mrs., B.Sc. Manc., Ph.D.

(R.).

*Agriculture*

Comber, N. M., D.Sc. Lond.,

A.R.C.S., F.I.C. (Agric. Chem.)

Prof. and Head of Dept.

McGregor, J., B.Sc. Glas., N.D.A.,

N.D.D. Prof.

Robertson, G. C. A., M.C., M.A.,

B.Sc. Aberd.

Lectr. and Farm Director.

Bywater, T. L., B.Sc. Wales Lectr.

Moore, H. I., M.Sc., Dip. Ag. Camb.

Asst. Lectr.

District Lectrs. : [Leeds.

Thompson, H., B.Sc. Manc. and

Strachan, J., M.A., B.Sc. Aberd.,

N.D.A.

Robb, J., B.Sc. Aberd.

Gelling, W. E., B.Sc., N.D.A.

Ballardie, W. W., B.Sc. Durh.,  
N.D.D.

Miller, T. E., M.Sc., N.D.A.

Hendrie, D. S., B.Sc. Glas., Dip.

Agric. Sci. Camb., N.D.D.,

N.D.A.

*Agric. Botany*

Millard, W. A., D.Sc. Bris.

Lectr. and Advisory My-  
cologist.

Burr, S., M.Sc.

Lectr.

Asst. Lectrs. :

Jones, A. Powell, M.Sc. Wales.

Chalmers, C. H., B.Sc. Edin.,  
N.D.A.Turner, Dorothy M., B.Sc., Dip. in  
Hort. Reading.*Agric. Chemistry*

Jones, H. Trefor, M.Sc. Wales,

A.I.C. Lectr.

Asst. Lectrs. :

Willcox, J. S., B.Sc. Lond., A.I.C.

Hallsworth, E. G., B.Sc.

*Agric. Economics*

Long, W. H., M.A. Ox.

Advisory Economist.

Nutt, J. D., B.A. Brist., N.D.A.

Asst. Lectr.

Whitby, H., B.Sc. Manlt.

Tech. Asst. (R.).

Jeffrey, A. G., B.Com. Stud. Asst.

Macfarlane, I., B.Sc. Reading.

*Agric. Engineering*

Mackay, I. M., B.Sc. Edin.

Temp. Pt.-time Asst. Lectr.

*Agric. Zoology*

Thompson, H. W., M.Sc.

Advisory Entomologist.

Asst. Lectrs. :

Johnson, L. R., M.Sc.

Carrick, R., B.Sc. Glas., Ph.D.

Edin.

(R.) = Research Asst.

*Dairy Husbandry*

Lamberton, J. K., B.Sc. Glas.,  
N.D.A., N.D.D. Asst. Lectr.  
..... Demr.

*Horticulture*

Hudson, C. E., N.D.H. Lectr.

*Poultry Husbandry*

Goode, C. W., N.D.A., N.D.D.  
Lectr. and Demr.

*Veterinary Hygiene*

..... Lectr.

Crop Recorder: Simmons, H. W.,  
N.D.A.

10 Instrs. and Asst. Instrs. in  
Dairying, Hortic., Poultry,  
Farriery, and Bee-keeping.

**Medicine**

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Anæsthetics*

Rowling, S. T., M.D. Lectr.

*Bacteriology*, v. Pathol.*Cancer*, v. Pathol.*Forensic Med.*

Telling, W. H. Maxwell, M.D., B.S.  
Lond., F.R.C.P. Prof.

Garland, H. G., M.D., M.R.C.P.  
(Toxicol.) Hon. Demr.

*Infectious Diseases*

Benn, E. C., M.B., Ch.B., D.P.H.  
Liv. Lectr.

*Medical Hydrology*

Holmes, G., M.B., B.Ch. Camb.  
Hon. Lectr.

*Medicine and Clin. Med.*

MacAdam, W., M.A., B.Sc., M.D.  
Glas., F.R.C.P.

(Clin. Med.) Prof.  
Burrow, J. le F. C., M.D. Edin.,  
Ch.B., F.R.C.P. Prof. (C.).

Hartfall, S. J., B.Sc., M.D.,  
M.R.C.P. (Therap. and Appd.  
Pharm.) Prof.

Vining, C. W., M.D. Lond.,  
F.R.C.P., D.P.H.

(Diseases of Children) Prof.  
Tunbridge, R. E., M.Sc., M.D.,  
M.R.C.P. Reader.

Ingram, J. T., M.D. Lond., F.R.C.P.  
(Skin Dis.) Lectr. (C.).

Hellier, F. F., M.A. Camb., M.D.  
Lond., M.R.C.P.

(Skin Dis.) Lectr. (C.).  
Tattersall, N., M.D. Lond.

(Tuberculosis) Lectr.  
MacAdam, W., M.A., B.Sc., M.D.  
Glas., F.R.C.P.

(Dietetics and Metab.  
Med.) Lectr. (C.).

Garland, H. G., M.D., M.R.C.P.  
Lectr. (C.).

Allibone, E. C., M.D., M.R.C.P.  
Med. Tutor and Registrar.

Price, J. A., M.D. Belf., M.R.C.P.  
Hon. Demr.

Towers, J. R. H., M.A., M.D.  
Camb. Hon. Demr. (C.).

*Mental Diseases*

..... Prof.  
McGrath, M. J., M.B., B.Ch.,  
B.A.O. R.U.I., D.P.M.  
Lectr. (C.).

*Obstetrics and Gynæcology*

Claye, A. M., M.D., F.R.C.S.,  
M.C.O.G.

(Obst. & Gyn.) Prof. (C.).  
Adamson, Mrs. R., M.D., B.S.

Lond., F.C.O.G.  
(Midw.) Lectr. (C.).

Jeaffreson, B. L., F.R.C.S.  
(Gyn.) Lectr. (C.).

Currie, D. W., M.D., Ch.M.,  
F.R.C.S. Lectr. (C.).

Blomfield, G. W., M.A. Camb.,  
M.B., Ch.B., M.R.C.S.,  
L.R.C.P. Tutor.

*Ophthalmology*

- Foster, J., M.A., M.B., Ch.B.  
Camb. F.R.C.S. Lectr. (C.).  
Black, G. W., M.B., B.S. Lond.,  
M.R.C.S., L.R.C.P.  
Lectr. (C.).

*Otology*

- Munby, W. M., Ch.M. Edin.,  
F.R.C.S. Lectr. (C.).  
Seed, G. S., M.B., Ch.B., F.R.C.S.  
Lectr. (C.).

*Pathology and Bacteriology*

- Stewart, M. J., M.B., Ch.B. Glas.,  
F.R.C.P.  
(Path.) Prof. and Hd. of  
Dept. (C.).  
McLeod, J. W., O.B.E., M.B.,  
Ch.B. Glas., F.R.S.  
(Bact.) Brotherton Prof.  
Passey, R. D., M.C., M.D., B.S.,  
D.P.H. Lond.  
(Exper. Path.) Prof. and  
Dir. Cancer Research.  
Fowweather, F. S., M.Sc., M.D.,  
D.P.H. Liv., F.I.C.  
(Clin. Chem. P.) Reader.

*Lecturers :*

- Gordon, J., M.D., M.R.C.P.,  
D.P.H. (Bact.).  
Polson, C. J., M.D. Birm.,  
M.R.C.P., M.R.C.S. (Path.).  
Carmichael, R., M.B., Ch.B. Edin.  
(Path.).  
Cooper, K. E., Ph.D., A.I.C.,  
M.R.C.S., L.R.C.P. (Bact.).  
Sutherland, P. L., M.B., Ch.B.,  
D.Sc. Glas. (P. of Indust. Dis.).  
Collinson, H., C.B., C.M.G., D.S.O.,  
T.D., M.B., M.S. Lond.,  
F.R.C.S. (Surg. Path.) (Dean,  
Fac. of Med.).

*Demrs. :*

- Wheatley, Bertha, M.B., Ch.B.  
(Bact.) (Pt.-time).  
Johnstone, K. I., B.Sc., M.B.,  
Ch.B. (Bact.).

- Wood, N., B.Sc., M.B., Ch.B.  
Heggie, R. M., B.Sc., M.B., Ch.B.  
Glas.  
Watson, G. N., M.B., Ch.B.  
..... (Chem. Path.).  
Stansbury, W. S., B.A., M.D. Tor.  
(Path. and Cancer Res.) (Pt.-  
time).  
Cattley, R., M.B., C.M. Edin.,  
B.Sc., D.P.H. Camb. (Path.).  
Hon. Fellow.  
Lissimore, N., M.B., Ch.B.  
Hon. Demr.  
Symons, H. W., M.B., Ch.B.,  
F.R.C.S. Hon. Demr.  
Stewart, Clara, M.B., B.S. Lond.  
(Path.) Hon. Demr.  
Garland, H. G., M.D., M.R.C.P.  
(Med. Path.) Hon. Demr.

*Cancer Research :*

- Orr, J. W., M.D., B.Sc., B.A.O.,  
D.P.H. Belf.  
Reader Exp. P., Asst. Dir.  
Stickland, L. H., M.A., Ph.D.  
Camb. Bio-Chemist.  
..... Fellow.  
Davis, W. B., B.Sc., M.B., Ch.B.  
Belf., D.P.H. Fellow.  
Clemmeson, J., B.M., Ch.B. Copen-  
hagen Fellow.  
..... Fellow.  
Leese, A., M.A., Ph.D. Camb.  
Temp. Pt.-time (R.).  
Bonser, Mrs. K. J., M.D. Manc.,  
L.R.C.P., M.R.C.S.  
Pt.-time (R.).

*Pharmacology and Therapeutics*

- Moll, H.H., M.D. Rome, M.B., Ch.B.,  
M.R.C.P. Hon. Demr. (C.).

*Public Health, v. also Path.*

- Jervis, J. J., M.D. Edin., D.P.H.  
Lond. (P.H. Admn.) Prof.  
Sharpe, J., M.D., F.R.F.P.S. Glas.,  
D.P.H. Lond. Hon. Demr.

(C.) = Clinical Lectr.

(R.) = Research Asst.

*Radiology and Electro-Therapeutics*

Scargill, H. B., M.B., B.S. Lond.  
..... Lectr.

*Rheumatism Research*

Collins, D. H., M.D. Liv., M.R.C.S.,  
L.R.C.P. Fellow.  
Goldie, W., M.A., M.B., Ch.B.  
Aberd., M.R.C.P. Edin.  
Fellow.

*Surgery*

Flint, E. R., M.B., Ch.B., F.R.C.S.  
Prof. & Dir. of Surg. Res.  
(C.).  
Braithwaite, L. R., M.B., Ch.B.  
Vict. and Leeds, F.R.C.S.  
Clin. Prof.  
Broomhead, R., M.B., Ch.B.,  
F.R.C.S. (Orthop. S.)  
Lectr. (C.).  
Long, M. Hilary E., M.Sc., M.B.,  
B.S. Lond., F.R.C.S., L.R.C.P.  
Reader.  
Oldfield, M.W.C., M.A., B.M., B.Ch.  
Ox., F.R.C.S. Surg. Tutor.  
Latchmore, A. J. C., M.B., B.S.  
Lond., F.R.C.S. Surg. Tutor.

*Surgery, Clinical*

Moir, P. J., M.C., M.B., Ch.B.  
Glas., F.R.C.S. (C.).  
Chamberlain, D., M.B., Ch.M.,  
F.R.C.S. (C.).  
Armitage, G., M.C., M.D., Ch.M.,  
F.R.C.S. (C.).  
Allison, P. R., B.Sc., M.B., Ch.M.,  
F.R.C.S. (C.).  
Pain, A. B., Ch.M., F.R.C.S.  
(Orthop.) (C.).

*Vaccination*

Middlemiss, J. E., F.R.F.P.S. Glas,  
M.R.C.S., L.R.C.P. Instr.

*Venereal Diseases*

Bibby, J. P., M.B., Ch.B.,  
M.R.C.P. (C.).

**Dentistry***Dental Anatomy and Physiology*

Sykes, J. G., B.Ch.D. Lectr. (C.).

*Dental Histology*

Ramsden, D. C., L.D.S.  
Hon. Demr. (C.).

*Dental Mechanics* [Lectr. (C.).

Stephens, H. D., L.D.S.  
..... Tutor.

*Dental Metallurgy*

Lowson, W., B.Sc. Lond. and  
Leeds, F.I.C. Lectr.

*Dental Path. and Bact.*

Cork, D. J., L.D.S. Lectr.

*Dental Radiology*

Scargill, H. B., M.B., B.S. Lond.  
Lectr.

*Dental Surgery*

Read, T. T., F.R.F.P.S. Glas.,  
L.R.C.S., L.R.C.P. Edin.,  
L.D.S. Glas.

Prof. & Warden (C.).

Cocker, J. P., L.D.S. Lectr. (C.).  
Thorburn, W. S., M.Sc., L.D.S.  
(Op. D. Surg.) Lectr. (C.).

Iles, G. D., L.D.S. (C.).

Crawford, J. K., L.D.S. (C.).

Summers, A. E., L.D.S. (C.).

Macrae, J. M., L.D.S. (C.).

Brenan, S. H., L.D.S. (C.).

Ross, R. N., B.Ch.D. (C.).

Johnson, H. G. L., L.D.S. (C.).

Hollings, M. R., B.Ch.D. Demr.

Shaw, H., L.D.S. Demr.

Fell, S. R., L.D.S.

(Prosth. D.) Demr.

6 Hon. Clin. Tutors, 4 House Sur-  
geons, 2 Asst. House Surgeons.

*Orthodontia*

Wilkinson, G. L., M.R.C.S.,  
L.R.C.P., L.D.S. Lectr. (C.).

2 Hon. Dental Anæsthetists.



**Technology**

v. also Agr., Engin., Mining  
*Coal, Gas, and Fuel Industries*  
*with Metallurgy*

Cobb, J. W., C.B.E., B.Sc. Leeds  
 and Lond., F.I.C. Livesey Prof.

Hodsman, H. J., M.B.E., M.Sc.,  
 F.I.C. (Gas Chem.) Lectr

Preece, A., M.Sc. Wales  
 (Met.) Lectr.

Roberts, A. L., Ph.D. (Refractory  
 Materials) Asst. Lectr. & (R.).

Research Chemists :

Wood, J. W., M.Sc.Tech. Manc.,  
 A.I.C.

Dent, F. J., Ph.D.

Key, A., Ph.D.

Research Assts. :

Blackburn, W. H., Ph.D.

Eastwood, A. H., Ph.D.

Millett, H. C., B.Sc., Ph.D. Temp.

Richardson, G. T., Ph.D. Sheff.

Simister, E., B.Sc.

*Colour Chemistry and Dyeing*

Rowe, F. M., D.Sc., F.I.C. Prof.

Cross, E. J., B.Sc., Ph.D. Lond.

(Colour Chem.) Lectr.

King, P. E., A.I.C., F.T.I.  
 (Dyeing) Lectr.

Peters, A. T., Ph.D. Manc.  
 Asst. Lectr.

Osborn, W., B.Sc.

(Dyeing) Demr.

Stevens, C. B., B.Sc.

(Dyeing) (R.).

Denham, W. S., B.Sc. Lond.,

D.Sc. St. And., F.I.C.

Hon. Fellow.

*Leather Industries*

McCandlish, D., M.Sc. Prof.

Atkin, W. R., M.Sc. Lectr.

..... Lectr.

(R.) = Research Asst.

(R.).

.....

Procter International Research  
 Laboratory :

..... Hon. Director.  
 ..... (R.).

*Textile Industries* [Prof.

King, A. T., B.Sc. Lond., F.I.C.

Readers :

Speakman, J. B., D.Sc. Manc.,  
 F.I.C., F.T.I. (T. Chem.).

Astbury, W. T., M.A., Sc.D.  
 Camb. (T. Phys.).

Lectrs. :

.....

Hollis, T. (Yarn Manuf.).

Yewdall, A. (Cloth Struct., etc.).

Pickles, F. (T. Testing).

Asst. Lectrs. :

Farley, W. H. (T. Design).

Priestley, G. (Cloth Anal.).

Woods, H. J., B.A. Ox. (R.).

Bailey, K., Ph.D. Birm., M.Sc.  
 Lond., A.I.C. (R.).

Whewell, C. S., Ph.D. (R.).

Bell, Florence O., B.A. Camb.  
 (R.).

Wilsdon, B. H., M.A., B.Sc. Ox.  
 (Dir. Res. Students at Torri-  
 don).

**University Extension**

Staff Tutors : Williams, J. R.,  
 B.A.; Johnson, L. G., B.A.  
 Sheff.; McCulloch, F. J.,  
 B.A.; Holman, F. M. H.,  
 M.A. Camb.; Hardman, H.,  
 B.A. (Com.) Manc.; Ray-  
 bould, S. G., B.Sc. Lond.;  
 Irving, J., B.A. Camb.;  
 Baines, H., B.A.

**AFFILIATED COLLEGES**

COLLEGE OF THE RESURRECTION, MIRFIELD (Warden—G. Rees, M.A.)  
 and RAWDON COLLEGE (Principal—Rev. A. C. Underwood, D.D.).

TECHNICAL COLLEGE, HUDDERSFIELD (Prin.—J. F. Hudson, M.A., B.Sc.).

DIOCESAN TRAINING COLLEGE, YORK.

PRINTING DEPARTMENT OF THE LEEDS COLLEGE OF TECHNOLOGY.

## GENERAL INFORMATION

The Leeds School of Medicine, founded 1831, and Yorkshire College, established as a College of Science in 1874, were united in 1884. The College formed part of the Victoria Univ. from 1887 to 1904, when a Univ. was established by Royal Charter in the city of Leeds.

**BROTHERTON LIBRARY**, 209,022 books and pamphlets. **Medical Library**, 18,161 books and pamphlets. **Agricultural Library**, 19,090 books and pamphlets. The Brotherton Collection (MSS., some 300 *incunabula*, early printed books, and other special collections) is housed in the Brotherton Library. Other special collections: (a) 2300 vols. in French on Great Britain, printed before 1801; (b) 270 vols. on events in France in 1870–71; (c) Icelandic and Scandinavian collection of 10,661 vols. and pamphlets; (d) Mitresey Collection of 612 vols. on occultism; (e) All Souls Collection of 2294 vols. in early science and theology; (f) Library of the Leeds Philosophical and Literary Society, presented in 1936; (g) Chaston Chapman Chemistry Library, 3000 vols. and many thousands of pamphlets.

**MUSEUMS**: Anatomy, Dyeing, Materia Med., Path., Textile, Zool. **LABORATORIES**: Agricultural Chemistry, Botany, Chemistry, Colour Chem. and Dyeing, Engin. (Elec., Civ., Mech.), Geol., Leather Industries (including Procter Internat. Research), Maths., Metallurgy, Mining, Path. and Bacteriology, Cancer, Physics, Physiol., Textile, Zool. **OBSERVATORY**, 18½" reflector telescope. **FARM**, 348 acres, including Poultry School. **HOSPITALS** available for Clinics: Infirmary (627 beds) and several others; Asylum (2400 inmates).

**FACULTIES**. Arts (including Theology), Economics and Commerce, Law, Science, Technology [including Agric., Coal Gas and Fuel with Metallurgy, Colour Chemistry and Dyeing, Engineering (Civ., Elec., Mech.), Leather Industries, Mining, Textile Industries], Medicine (including Dentistry and Pharmacy). *Deans*: Profs. A. Hamilton Thompson (Arts), P. Barbier (Econ. and Commerce), J. D. I. Hughes (Law), R. Whytlaw-Gray (Science), E. L. E. Wheatcroft (Technology), Harold Collinson (Medicine). *Tutor of Women Students*: Dora M. Hibgame, M.A. Ox.

In connexion with each of the technological departments there is an Advisory Committee, which includes representatives of the industry concerned.

**ADMISSION**. See Appendix I.

**DEGREES**. Obtainable after a 3 yrs.' course from matricn.—B.A., B.Sc. (Honours degree usually 4 yrs.), LL.B., B.Com. (which may be taken with an Applied Science as one of the principal subjects), 3 yrs. for degree, or 4 yrs. including Diploma of Printing Dept. of Leeds Tech. Coll.; M.B., Ch.B., B.Ch.D. 5½ to 6 yrs.

General Honours B.A. and B.Sc. degree are conferred (v. p. 6).

*Mining* students receive practical instruction in mines under arrangements made with local owners, but the courses are not intended to supersede the usual apprenticeship.

Hons. students of Mod. Langs. (French, German, Russian, Spanish) normally spend 3rd term of 2nd year at some approved foreign Univ.

Supplementary Textile studies may be combined with a B.A. or B.Com. course. Any of the Tech. subjects may be taken in a B.Sc. course. The

Law Dept. prepares students for the Bar and Solicitors' examns. as well as for the Univ. degrees.

**HIGHER DEGREES.** B.D., M.A., LL.M., M.Com., M.D., Ch.M., 1 yr.; M.Ed., M.Sc., 2 yrs. (for holders of Hons. B.Sc., 1 yr. after the bachelorship). Graduates of approved Univs. (all the chief Univs. of the world, including institutions recognized by the Assocn. of Amer. Univs., v. App. VIII.) may obtain the M.A., Ph.D. (v. p. 13), or M.Sc. by 2 yrs. of research. M.A., Ph.D., or M.Sc. of this Univ. may obtain the Litt.D. or D.Sc. 6 yrs. after the bachelorship.

Graduates of other Univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as graduates from the date of original graduation.

**DIPLOMAS.** Animal Biology, Commerce, Education, Fuel and Metallurgy, Gas Engineering, Geography, Textiles, 1 yr. (sometimes 2) after graduation. Educational Administration, Public Administration, 2 winter sessions. Biblical Studies, 2 yrs. part-time. Social Organization and Public Services, 2 yrs. (1 for graduates). Engineering (Civil, Electrical, Gas, Mechanical, Mining), Fuel and Metallurgy, Mining and Metallurgy, Dyeing, Leather, Textile Industries, 3 yrs., reducible under certain conditions to 2. Agriculture, 3 yrs. (2nd and 3rd yrs. 2 winter terms only). Colour Chemistry, 4 yrs. Part-time for apprentices Gas Engineering, Fuel and Metallurgy, 4 yrs.; Colour Chemistry and Dyeing, 5 yrs. Public Health, 12 mos. after graduation. Psychological Medicine, 6 mos. after graduation. Nursing, involving 4 yrs.' hospital training and 3 mos.' lectures. Dental Surgery, 4 yrs. including 2 in Univ.

**EVENING COURSES** for advanced students in Technological subjects are conducted in co-operation with the Leeds and West Riding Education Committees.

**FEES** Matricn., £2. Registration, £2 (£5 for overseas students). Composition fees for tuition (including Union): Arts, £34 a session; Law, £14 : 11s.; Science, £42, Technology, £46 (special materials charge in addition of £10 for overseas students in Textiles Dept.); Agric. Degree, 1st session £42, 2nd and 3rd sessions (and 4th if required) £46; Agric. Dipl., 1st session £31, 2nd and 3rd sessions £20. Course for Dipl. in Educn., £35 p.a.; Dipl. in Social Organization, £27 p.a. Medicine: complete course for M.B., including hospl. practice and maternity hostel residence, £296. Dentistry (including hospl. practice and pupillage). Dipl., £247; Degree, £280. Research fee, £18 a session. Examns.: Arts, Science, etc., £6; Medicine (including graduation), £19; Dentistry, B.Ch.D., £16; L.D.S., £16. Graduation fee, £7.

**POST-GRADUATE SCHOLARSHIPS, ETC.** Fellowships and scholarships for research in Gas, Col. Chem., Textiles, Med., *see* App. II. Also, for graduates of the Univ., £150 for 2 yrs. for research and advanced study; £150 for 2 yrs. for research in English, or History, or Economics; £100 for research in Chem. or Pharm.; £70 Schlp. for research in Arts Faculty; £125 for higher Humanistic study, for graduates of Leeds or Sheffield; £45 for advanced study in Greek or Latin; £25, Forensic Med. and Hygiene; Frank Parkinson Fellowships, Scholarships or Grants, of varying amount, awarded normally for 2 yrs.

**RESIDENCE.** One hostel for 140 men and three for women. Fees, men £64, women £54 to £63, per session of 32 weeks. A site of 160 acres on the outskirts of the city has been acquired for hostels for men and women students.

**APPOINTMENTS BOARD.** Secretary: W. R. Grist, B.Sc. Lond., The University, Leeds 2.

Number of posts filled, 1936-37, 322. Teachers, 167; engineers, 43; technical and scientific workers (chemists, physicists, etc.), 55; administrative, 57.

OVERSEAS STUDENTS' COMMITTEE. Secretary, The University.

AN OLD STUDENTS' ASSOCN. was formed in 1923.

UNIVERSITY EXTENSION. Lecture courses and Tutorial classes are provided in co-operation with the Workers' Educnl. Asscn. and Local Education Authorities, and an Annual Summer School in connexion therewith was instituted in 1919.

In connexion with the Agric. Dept. a considerable part of the time of lecturers of the Univ. is devoted to work in local centres.

PUBLICATIONS. *Calendar* (Sept.), 4s.; Annual Reports of the Univ. and of Tech. Depts.; List of Researches, etc.; *Gryphon*, 3s. annually (students' magazine); *Union Handbook*; Prospectuses of various Depts.

## THE YEAR 1936-37

BENEFACTIONS. Mr. Frank Parkinson £200,000 for building of Central Block; £20,000 (anonymous) as endowment for general maintenance; £100 (anonymous) for civil engineering research; Hon. Mrs. Clive Behrens, £1000 for "Clive Behrens Lectureship"; Scholarship of £100 a year in Petroleum Technology and Mining Engineering; West Yorkshire Coal Owners' Assns'. Mining Schlp. of £60 a year; Yorkshire District Area Education Com. of National Assn. of Local Govt. Officers, £50; Sir Dugald Clerk, legacy of £1000 and one-thirty-first of residue; Federation of Curriers, £20; £1000 legacy under Lord Moynton's will for Lectureship in memory of his mother; Mr. James Clay, £500 legacy for Cancer Research; Mr. G. H. Oldroyd, £125 legacy; late Dr. Sybil Burr, £50 and books; Mr. J. G. Wilkinson, bequest of herbarium and books; bust of Lord Snowden by Professor Strobl, presented by Lady Snowden. Many valuable gifts to the Library and to various Univ. Depts.

NEW BUILDINGS AND EQUIPMENT. Architect apptd. for Central Block; plans approved for new Union building; new boathouse erected; assignment of new Headquarters for O.T.C.; addnl. accommodation for Zoology and Anatomy; structural alterations in Textile Dept.; improvement of annexes.

NEW POSTS. Lectureship in Italian on permanent basis, addnl. Asst. Lectureship in English, Clin. Lectureship in Diseases of Skin, second Research Fellow in Rheumatism, Demonstratorship in Chem. Pathol., addnl. Demonstratorship in Anatomy, addnl. Res. Asst. in Fuel Dept.

CHANGES IN REGULATIONS. Ordinances for B.D. and D.D. degrees, Amendment of Matriculation Statutes, Revision of Ordinances for degrees in Arts, Law and Science.

UNIVERSITY EXTENSION COURSES at 7 centres; 84 Tutorial Classes; Tutorial Class Summer School at Saltsburn. The Agricultural Dept. during 1936-37 held junior day classes in agricultural subjects for those between 14 and 18 years at 11 centres; classes for older people were arranged in Agric. at 15 centres; in Hortic. at 4 centres; in Poultry-keeping at 1 centre; Bee-keeping at 5 centres and courses in Rural Domestic Econ. (Fruit and Vegetable Preservation and Milk Utilization) at 16 centres. In addition 404 lectures were given at 256 centres.

OTHER DEVELOPMENTS. Increase of grant for Apparatus and Research from £3000 to £3250. Increase in grant to Univ. Working Men's Institute

from £52:10s. to £150 p.a. Scheme of voluntary medical inspection for students.

RETIREMENT. Colonel H. G. Bowes (Vet. Hygiene).

RESIGNATIONS. Prof. G. W. Watson (Medicine); R. Powell (Law); Miss Marchbank (Warden, Lyddon Hall).

DEATHS. Emeritus Profs. A. G. Perkin and de Burgh Birch; Dr. Sybil Burr (Sub-Warden of Weetwood Hall); F. C. Thompson (Leather Industries); Dr. J. E. Duerden (Zool.).

PUBLIC LECTURES were delivered by: Prof. N. V. Sidgwick (Oxford), "Resonance in Organic Chemistry." Prof. A. M. Carr-Saunders (Liverpool), "Population situation in England." Prof. E. A. Owen (Wales), "The application of X-rays to the study of alloys." Dr. J. Hammond, "Growth and function of the mammary gland." Prof. A. H. Gibson (Manchester), "The use of working models in Engineering." Mr. J. C. Gregory, 4 lectures on "Some aspects of the origin and development of natural science." Prof. B. Dobrée, "English Literature as a University subject." Prof. A. Hemingway, "Human limitations." Prof. A. Durward, "Anatomy in the medical curriculum." Dr. George Dyson (London), "Sibelius." Prof. R. W. Chambers (London), "The Venerable Bede and his times." Prof. Daisetsu Teitaro Suzuki, "Buddhism in the life and thought of the Japanese people." Mr. Eric Newton, "The meaning of modern art." Prof. A. Carnoy, "L'Unité psychologique dans la langue." Mr. J. Kolni Balozky, "The life and works of A. T. Pushkin." Mr. E. W. Allam, "Maurice Ravel." Rev. Canon O. C. Quick (Prof. of Divinity and Ecclesiastical Hist., Univ. of Durham), 8 lectures on "The Christian doctrine of salvation."

Nine Midday Musical Recitals were given.

HONORARY DEGREES. *LL.D.*—Rt. Hon. Lord Askwith, Rt. Hon. S. M. Bruce, Prof. J. K. Jamieson, Mr. Joseph Jones. *Litt.D.*—Prof. George S. Gordon, Rev. Luke Wiseman.

STUDENTS. Full-time: 1705, including 228 graduates. Part-time: 382, including 95 graduates.

DEGREES. B.A., 85; M.A., 9; M.Ed., 8; B.Com., 11; M.Com., 3; LL.B., 23; B.Sc., 118; M.Sc., 12; D.Sc., 2; M.B., Ch.B., 42; M.D., 11; Ph.D., 14.

# UNIVERSITY OF LIVERPOOL

Founded 1903

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. the EARL OF DERBY, K.G., G.C.B., G.C.V.O., LL.D.

PRO-CHANCELLORS—Sir CHARLES SYDNEY JONES, M.A., LL.D.; R. H. ARMSTRONG.

VICE-CHANCELLOR—ARNOLD D. McNAIR, C.B.E., M.A., LL.D. Camb. and Glas.

PRO-VICE-CHANCELLOR—Prof. T. B. ABELL, O.B.E., M.Eng., R.C.N.C. (Retd.), M.Inst. N.A.

TREASURER—Sir FREDERICK J. MARQUIS, M.A., B.Sc.

CHAIRMAN OF CONVOCATION—S. D. McAusland, B.A., M.D., M.R.C.S., L.R.C.P.

REGISTRAR—STANLEY DUMBELL, M.A.

ASSISTANT REGISTRAR—S. W. C. PHILLIPS, B.A.

LIBRARIAN—K. POWEY, M.A. Camb.

Telephone : Liverpool, Royal 5460.

## TEACHING STAFF

<i>Anatomy</i>	[Derby Prof.	Shulman, S., M.B., Ch.B.
Wood, W. H., B.Sc., M.D. Manc.		Rankin Fellow.
Lectrs. :		Lunt, H. R. W., M.B., Ch.B.
		Rankin Fellow.
Nuttall, H. C. W., F.R.C.S.,		David, J. B., M.B., Ch.B.,
L.R.C.P., D.P.H. (Appl. Surg.		M.R.C.S., L.R.C.P.
A.).		Gee Fellow.
Baker-Bates, E. T., M.D.,		<i>Archæology</i> , v. also Palæog. and
M.R.C.P. (Appl. Med. A.).		Associated Institutions
Roberts, R. E., M.D., B.Sc.,		Droop, J. P., M.A. Camb., F.S.A.
D.P.H., D.M.R.E. (Appl.		(Classical A.)
Radiol. A.).		C. W. Jones Prof.
Jones, Tudor J., D.Sc. Glas.,		Blackman, A. M., M.A., D.Litt.
M.B., Ch.B. (Embryol.).		Ox. (Egyptology)
Demrs. :		Brunner Prof.
Diggle, W. S., M.B., Ch.B., M.Ch.		Garstang, J., M.A., B.Litt., D.Sc.
Orth., F.R.C.S.		Ox., LL.D., F.S.A. (Methods
Griffin, S. G., M.B., Ch.B.,		and Practice of A.)
M.R.C.S., L.R.C.P.		Rankin Prof.
Macmillan, E. W., M.B., Ch.B.	.....	(Mediæval A.) Reader.
Edin.		

Newberry, P. E., M.A. (Egyptian Art) Reader.

*Architecture*, v. also Civ. Design, Engin.

Budden, L. B., M.A., F.R.I.B.A. Roscoe Prof.

Scott, Sir Giles G., LL.D., R.A., P.P.R.I.B.A. (Eccl. Archit.) Reader.

Sr. Lectrs. :

Marshall, J. E., B.Arch., F.R.I.B.A.

Cole, E. R. F., B.Arch., F.R.I.B.A.

Winston, D., M.A. Harv., B.Arch., A.R.I.B.A.

Lectrs. :

Curtis, F. F., D.Ing.

Eden, W. A., M.A., B.Arch., A.R.I.B.A.

Velarde, F. X., B.Arch., F.R.I.B.A.

Todd, A. C., B.Arch., A.R.I.B.A.

Thearle, H., Dipl. Arch., A.R.I.B.A.

Brooke, D., M.A., B.Arch., A.R.I.B.A., M.I.Struct.E.

Hutton, C. W., B.Arch.

Brandon-Jones, J., Dipl. Arch. A.A., A.R.T.B.A.

Manthei, R. A., A.C.G.I., D.I.C.

Potter, J. A., B.A., A.R.T.B.A.

Mawson, H., D.Sc.(Eng.) Lond., A.R.C.S. (Strength of Materials) Spl. Lectr.

Penn, W. C., R.O.I. (Drawing from the Life) Instr.

Smith, H. Tyson, A.R.B.S.

Hon. Instr. in Craftsmanship.

*Bacteriology*, v. Med.

*Bio-Chemistry*

Channon, H. J., B.A., D.Sc. Lond., F.I.C. Johnston Prof.

Coope, R., B.Sc., M.D., M.R.C.P. (Clin. Chem.) Lectr.

Gaddie, R., B.Sc., Ph.D. Edin. Sr. Lectr.

Loach, J. V., B.Sc., Ph.D. Birm., F.I.C. Lectr.

Aylward, F. X., B.Sc., Ph.D.

Asst. Lectr.

Platt, A. P., B.Sc. Asst. Lectr.

Loizides, P. A., B.Sc.

Johnston Colonial Fellow.

*Botany*

Thompson, J. McLean, M.A., D.Sc. Glas., F.L.S. H. Gaskell Prof.

Knight, Margery, D.Sc., F.L.S. Sr. Lectr.

Lectrs. and Demrs. :

Stirling, J., D.Sc. St. And., F.L.S.

Mathias, W. T., M.Sc. Wales, F.L.S.

Horton, W., M.Sc.

(Plant Path.) Hon. Lectr.

*Celtic*

Foster, I. L., M.A. Wales. Lectr.

Owen, E., M.A.

(Welsh Mediæval Antiq.) Reader.

*Chemistry* v. also Bio-Chem.

Robertson, A., M.A. Aberd., B.Sc., Ph.D. Glas.

(Org. C.) H. Harrison Prof.

Lewis, W. C. McC., M.A. Belf., D.Sc., F.R.S., F.Inst.P.

(Inorg. and Phys. C.)

Grant-Brunner Prof.

Hilditch, T. P., D.Sc. Lond., F.I.C.

(Industrial Chem.—Oils, Fats and Waxes)

Campbell-Brown Prof.

Senr. Lectrs. :

Kay, F. W., M.Sc. Manc., Ph.D. Berl. (Applied Organic C.).

Guthrie, F. C., M.A. Camb., F.I.C. (Analytical C.).

Griffith, R. O., D.Sc., A.I.C. (Phys.).

Lectrs. and Demrs. :

Edwards, D. M., M.C., B.Sc. (Inorg.).

Shutt, W. J., D.Sc. (Phys. and Electrochem.).

McKeown, A., D.Sc. (Phys. and Chem. Phys.).

Doran, W., M.Sc., A.I.C. (Org.).

Nance, J. T., M.A. Ox. (Inorg.).  
 Occleshaw, V. J., M.Sc., A.I.C.  
 (Inorg.).  
 Morton, R. A., Ph.D., D.Sc., F.I.C.  
 (Inorg. and Spectrosc.).  
 McGookin, A., Ph.D., B.Sc., A.I.C.  
 (Org.).  
 Rogerson, H., M.Sc. Vict., F.I.C.  
 (Inorg.) Demr.  
 Green, T. G., B.Sc., Ph.D., A.I.C.  
 (Indust. C.) Demr.

*Chemistry, Pub. Health*

Roberts, W. H., M.Sc., F.I.C.  
 Assoc. Prof.  
 Jones, E. Gabriel, M.Sc., F.I.C.  
 Lectr.  
 Smith, F. J., B.Sc., F.I.C. Lectr.

*Civic Design*

Holford, W. G., B.Arch.,  
 A.R.I.B.A., M.T.P.I.  
 Lever Prof.  
 Dougill, W., M.A., B.Arch.,  
 A.R.I.B.A., M.T.P.I.  
 Leverhulme Lectr.

*Special Lectrs. :*

Kelly, S. A., F.S.I., M.T.P.I.  
 (Civic Engin.).  
 Mattocks, R. H., M.T.P.I. (Land-  
 scape Design).  
 Clarke, J. J., M.A., M.T.P.I. (Law  
 of Housing and Town Plan-  
 ning).  
 Poole, R., F.S.I., M.T.P.I.  
 Ward, M., M.R.S.I.  
 Eden, W. A., M.A., B.Arch.,  
 A.R.I.B.A. (Rural Planning)  
 Hon. Lectr.

*Classics : Greek*

Campbell, A. Y., M.A. Camb.  
 Gladstone Prof.  
 Hudson-Williams, H. L. I., B.A.  
 Wales and Camb. Asst. Lectr.  
 Bezzant, Rev. Canon J. S., M.A.,  
 B.D. Ox. (Hellenistic Gk.)  
 Hon. Lectr.

*Classics : Latin*

Mountford, J. F., M.A. Ox. and  
 Birm., D.Litt. Birm. Prof.

*Lectrs. :*

Bonner, S. F., B.A. Camb.  
 Walbank, F. W., M.A. Camb.  
 Painter, G. D., B.A. Camb.  
 Asst. Lectr.  
*Commerce* [Chaddock Prof.  
 Dewsnap, E. R., M.A. Manc.  
 Campbell, C. D., M.A., B.Com.,  
 Ph.D. Lectr.  
 Taggart, P., F.S.A.A. (Account-  
 ancy) Spl. Lectr.  
 Mort, J. H. (Banking) Spl. Lectr.  
 Lissenden, G. B., M.Inst.T. (Ind.  
 Traffic Management)  
 Spl. Lectr.  
 White, K., B.A., B.Litt. Ox.  
 Asst. Lectr.

*Dentistry, v. infra*

*Economic Science, v. also Com.*

Allen, G. C., Ph.D., M.Com. Birm.  
 Brunner Prof.  
 Macdonald, R. A., M.A.  
 Senr. Lectr.  
 Hyde, F. E., M.A., Ph.D. Lond.  
 (Ec. Hist.) Lectr.

*Education, v. also Physics*

Campagnac, E. T., M.A. Ox. Prof.  
 Brigstocke, W. O., B.A. Lond.  
 Senr. Lectr.

*Lectrs. :*

Collie, Frances A., M.A. Wales.  
 Kermode, Helen S., M.A.  
 Barnes, L. J., M.C., B.A. Ox.  
 Palmer, R., B.Sc. Lond.  
 Tozer, A. H. D., M.A. Camb.  
 Bradley, F. W., Ph.D. Camb.,  
 M.Sc. Spl. Lectr.  
 Doran, W., M.Sc., A.I.C.  
 Spl. Lectr.  
 Edwards, E., M.A. Tor., B.Sc.  
 Wales Spl. Lectr.  
 Winchester, Lily, M.A. Spl. Lectr.  
 Wallace, J. E., Mus.D. Durh.,  
 F.R.C.O. (Music).  
 Roaf, H. E., M.D. Tor., D.Sc.,  
 L.R.C.P., M.R.C.S. (Physiol.  
 and School Hyg.).



Teachers :  
 Laverock, Florence H. (Drawing  
 and Handwork).  
 Cameron, Elizabeth L. (Writing  
 and Illumination).  
 Nelson, Mary F. (Handwork).  
 White, W. W. (Handwork).  
 Milne, Susan Tutor and Demr.

### *Egyptian*

Blackman, A. M., M.A., D.Litt. Ox.  
 Lectr.

### *Engineering, v. infra*

### *English Lang. and Philol.*

Grattan, J. H. G., B.A. Lond.  
 Baines Prof.  
 Colledge, E., M.A. Asst. Lectr.  
 Ward, H. G., B.A. Lond.  
 Hon. Lectr.

### *English Lit.*

Martin, L. C., B.Litt., M.A. Ox.  
 King Alfred Prof.  
 McIlwraith, A. K., M.A., D.Phil.  
 Ox. A. C. Bradley Lectr.  
 Trenery, Grace R., M.A. Lectr.  
 Davenport, A., M.A. Asst. Lectr.  
 Humphreys, A. R., M.A. Camb.,  
 A.M. Harv. Tutor.  
 Robertson, Jean, M.A.  
 William Noble Fellow.

### *Entomology*

..... Dutton Prof.

### *Esperanto*

Collinson, W. E., M.A. Lond.,  
 Ph.D. Buchanan Lectr.

### *Fisheries, v. Oceanography*

### *French* [J. Barrow Prof.

Eggl, J. E., Ag. des L., D. ès L.  
 Fletcher, F. T. H., M.A., D.Litt.  
 Birm., D. de l'U. Nancy  
 Senr. Lectr.  
 Wright, Jean, M.A., D. de l'U.  
 Paris Lectr.  
 Moffat, Margaret M., M.A., D. de  
 l'U. Paris Lectr.  
 Evans, W. Hugo, B.A. Wales,  
 D. de l'U. Paris Lectr.

Knowles, Dorothy, M.A. Leeds,  
 L.R.A.M. Lond., D. ès L.  
 Paris Lectr.

### 3 French Tutors.

### *Geography, v. also Geol.*

Roxby, P. M., B.A. Ox.  
 Rankin Prof.  
 Smith, W., M.A. Lectr.  
 Baker, S. J. K., M.A. Lectr.  
 Varley, W. J., M.A. Wales, F.S.A.  
 Lectr.

### *Geology*

Read, H. H., D.Sc. Lond.,  
 A.R.C.S., F.G.S.  
 Herdman Prof.  
 Neaverson, E., D.Sc., F.G.S.  
 (Palæont.) Senr. Lectr.  
 Double, I. S., M.Sc., F.G.S.  
 Lectr. and Demr.

### *German*

Collinson, W. E., M.A. Lond.,  
 Ph.D. (also Hon. Lectr. in  
 Comp. Philol.) Prof.  
 Picton, Ænid, B.A. Wales Lectr.

### *Hebrew and Ancient Semitic Languages*

Martin, W. J., M.A. Dub., B.D.  
 Princeton Theol. Sem., Ph.D.  
 Leipzig Rankin Lectr.

### *Hispanic Studies : Portuguese and Catalan*

Peers, Prof. E. Allison, M.A. Camb.  
 and Lond. Hon. Lectr.

### *Hispanic Studies : Spanish*

Peers, E. Allison, M.A. Camb. and  
 Lond. Gilmour Prof.  
 Lara, Maria V. de, Lic. en F. y L.  
 (Hist.) Madrid Lectr.  
 Brown, R. F., M.A. Asst. Lectr.

### *History, Ancient*

Ormerod, H. A., M.C., M.A. Ox.,  
 F.S.A. Rathbone Prof.

### *History, Eccl., v. Affild. Instns.*

### *History, Mediæval*

Coopland, G. W., B.Sc. Lond.,  
 M.A., Litt.D. Prof.

Hunt, R. W., M.A. Ox.  
(Palæog.) Lectr.  
Myers, A. R., M.A. Manc.  
Asst. Lectr.

*History, Modern*

Veitch, G. S., M.A., Litt.D.  
A. Geddes & J. Rankin Prof.  
Routledge, F. J., B.Litt. Ox., M.A.  
Senr. Lectr.  
Howden, Marjorie P., M.A. Lectr.

*Italian*

Faithfull, R. G., B.A. Lectr.

*Law, v. also Civic and Engin.*

Blease, W. Lyon, LL.M. (Public  
Orator) Q. Vict. Prof.  
Batt, F. R., LL.M. (Comm. L.)  
Prof.  
..... (Internat. L.) Prof.  
Brown, H., M.A., LL.B. (Hist. of  
English L., etc.) Lectr.  
Geddes, W., M.A., LL.M. (Constnl.  
L. and Priv. Int. L.)  
Warr Mem. Lectr.  
Brown, A. W., LL.M. (Procedure,  
King's Bench Div.).  
Ball, E. S., F.C.A. (Book-keeping  
and Trust Accounts).  
Hamilton, A., LL.B. (Divorce L.  
and Practice).  
Simey, T. S., M.A. (Local Govt.  
and Admin. L.).  
Miller, A. B., B.A. (L. of Shipping,  
etc.).

*Mathematics, Applied*

Rosenhead, L., D.Sc. Leeds, Ph.D.  
Leeds and Camb. Prof.  
Hargreaves, R., M.A. Camb.  
Reader.  
Fletcher, A., M.A., Ph.D. Camb.,  
F.R.A.S. Lectr.  
Hulme, H. R., M.A., Ph.D. Camb.  
Lectr.  
Doodson, A. T., D.Sc., F.R.S.  
(Analysis of Observations)  
Hon. Lectr.  
Miller, J. C. P., M.A., Ph.D. Camb.,  
F.R.A.S. Asst. Lectr.

Daymond, S. D., B.A. Ox., B.Sc.  
Lond. and Wales  
Asst. Lectr.

*Mathematics, Pure*

Whittaker, J. M., M.A. Camb.,  
D.Sc. Edin. Prof.  
Bradley, F. W., Ph.D. Camb.,  
M.Sc. Lectr.  
Walker, A. G., M.A. Ox., Ph.D.  
Edin., F.R.A.S. Asst. Lectr.

*Medicine, v. infra*

*Naval Archit., v. Engin.*

*Oceanography*

Proudman, J., M.A. Camb., D.Sc.,  
F.R.S. Prof.  
Daniel, R. J., D.Sc.  
Leverhulme Senr. Lectr.  
Jenkins, J. T., D.Sc. Lond. and  
Wales, Ph.D. Kiel (Sea  
Fisheries) Hon. Lectr.

*Parasitology*

Southwell, T., D.Sc., Ph.D.,  
A.R.C.S. Lectr.

*Philology, Comparative, v. Ger-  
man*

*Philosophy*

Dorward, A. J., M.A. Edin. and  
Camb. Prof.  
Turner, J. E., M.A., Ph.D. Reader.  
Barnes, W. H. F., B.A. Ox.  
Asst. Lectr.

*Physics*

Chadwick, J., M.Sc. Manc., Ph.D.  
Camb., D.Sc. Reading, F.R.S.  
N.L. Lyon Jones Prof.  
Lectrs. and Demrs. :  
Ablett, R., M.Sc., F.Inst.P.  
Edwards, E., B.Sc. Wales, M.A.  
Tor. (also Educn.).  
Roberts, R. W., D.Sc.  
Richardson, H. O. W., B.Sc.  
Lond., Ph.D. Camb.  
Williams, E. J., Ph.D. Camb. and  
Manc., D.Sc. Wales (to 30.9.38)  
Leverhulme Lectr.

*Physiology and Histology*

Roaf, H. E., M.D. Tor., D.Sc.,  
L.R.C.P., M.R.C.S.

Holt Prof.

Brunton, C. E., M.A., Sc.D., M.D.  
Dub (Physiol) Senr Lectr

Lectrs.:

Wadsworth, T. W., M.D., D.P.H.,  
F.R.C.P. (Appl Physiol).

Tozer, Frances M., B.Sc. Lond.  
(Histol. and Cytol)

Tozer, A. H. D., M.A. (Exper.  
Psychol).

Asst. Lectrs and Demrs.:

Frazer, P., M.B., B.S. Lond.,  
M.R.C.S., L.R.C.P. (Physiol.).

Hancox, N. M., M.B., Ch.B  
(Physiol.).

Kirkman, N. F., M.B., Ch.B.  
Manc., M.R.C.S., L.R.C.P.  
(Physiol)

Demrs

Shulman, S., M.B., Ch.B (Histol.).

Griffin, S. G., M.B., Ch.B,  
M.R.C.S., L.R.C.P. (Histol.).

Pierce, T. H., M.B., Ch.B, D.P.H.,  
M.R.C.S., L.R.C.P.  
Holt Fellow.

*Psychology*

Harding, D. W., M.A. Camb (from  
21 4.38) Lectr

*Public Administration*

Simey, T. S., M.A. Ox.  
Leverhulme Sr. Lectr.

*Russian Hist, Lang. and Lit.*

Boswell, A. B., M.A. Bowes Prof.  
Slepchenko, B. S.

Hon. Recog. Teacher.

*Social Science*

..... Charles Booth Prof.  
Jones, D. Caradog, M.A. Camb.

(Social Statistics) Lever-  
hulme Sr Lectr.

Black, Ellinor I., B.Sc. Lond.  
Lectr.

Thompson, G. G., M.A. Edin.,  
B.A. Ox. Asst. Lectr.

*Spl. Tutors:*

Keeling, Dorothy C., M.B.E., M.A.  
MacEwen, Christine W., L.L.A.

*Spanish, v. Hispanic Studies**Vet. Science*

Share-Jones, J., M.D. (Vet.) Berne,  
D.V.Sc., M.Sc., F.R.C.V.S.,

Dir. of Vet. Studies

Prof. of V. Anat.

Craig, J. F., M.A. Glas., F.R.C.V.S.  
(Care of Animals)

W. Prescott Prof.

Lectrs.:

Davies, G. O., M.V.Sc., M.R.C.V.S.,  
D.V.H.

Elam, C. W., D.V.H., M.R.C.V.S.

Hughes, H. V., B.V.Sc.

Isherwood, R., M.R.C.V.S., Ad-  
ministrator, Vet. Hosp.

Mattinson, A. B., O.B.E., M.C., M.A.,  
F.R.C.V.S., D.V.S.M. Vict.

Shuttleworth, A. C., B.V.Sc., Res.  
Surg. Vet. Hosp.

Ratter, A., M.R.C.V.S.

Vet. Adviser.

*Welsh, v. Celtic**Zoology, v. also Entom., Ocean.,  
Parasit.*

Orton, J. H., D.Sc. Lond., F.L.S.  
Derby Prof.

Burfield, S. T., M.A. Camb., M.Sc.,  
F.L.S. Senr. Lectr.

Lectrs. and Demrs.:

Bisbee, Ruth C., M.Sc., F.L.S.

Fordham, Mahalah G. C., M.Sc.  
W. Aus.

Herdman, E. Catherine, M.Sc.

Hon. Lectr.

Ellis, W. G., B.Sc., Ph.D. Birm.  
Lectr.

*Engineering**Civil Engineering*

Batson, R. G., A.K.C., M.Inst.C.E.,  
M.I.Mech.E. Prof.

Hitchens, A. P., B.Eng. Lectr.

Daymond, J. R., M.Sc. Wales  
Lectr.

Bannister, J. L., B.Sc.Tech.  
Manc. Asst. Lectr.

Kennett, S. J., B.Sc., Ph.D.,  
A.R.S.M., D.I.C. Lectr.

*Dock and Harbour Engineering*

Wilton, T. R., M.A. Camb.  
Assoc. Prof.

*Naval Architecture*

Abell, T. B., O.B.E., M.Eng.,  
R.C.N.C. (ret.), M.I.N.A.  
A. Elder Prof.

*Electrical Engineering*

Marchant, E. W., D.Sc. Lond.,  
P.P.I.E.E. Jardine Prof.

Wilson, J. C. M., M.Eng., R.N.C.  
Lectr.

Teago, F. J., D.Sc. Durh., M.I.E.E.  
(Elect. Machinery)

Rankin Prof.

Lectrs. :

Brookes, R. C., B.A. Camb.

Rawcliffe, G. H., B.A. Ox.

Butler, O. I., B.Sc. Wales,  
M.M.E.E. Asst. Lectr.

*Law, Engineering*

Gordon, C. G. S., LL.B.,  
M.I.Min.E. Lectr.

*Marine Engineering*

Lectrs. : The Prof. of Mech. E.,  
the Prof. of Nav. Arch.

*Mechanical Engineering*

Scholes, G. E., M.B.E., M.Sc.Manc.,  
M.I.A.E., M.I.Mech.E.

Harrison Prof.

Mawson, H., D.Sc. (Eng.) Lond.,  
A.R.C.S.

(Mech. Engin. and Hy-  
draul. Mach.)

Senr. Lectr.

Kearton, W. J., D.Eng.

Senr. Lectr.

Clark, J. J., M.Eng., M.I.Mech.E.  
(Design & Drawing) Lectr

Okill, J., M.Eng. Lectr.

Cole, E. B., M.Sc. Bris. Lectr.

Smith, G., B.Sc. Lectr.

Calvert, N. G., B.Eng.  
Asst. Lectr.

Peregrine, E. P., B.Sc. Wales  
Asst. Lectr.

*Metallurgy*

Bannister, C. O., M.Eng., A.R.S.M.  
(also Lectr. in Dental M.)

Wortley Prof.

**Medicine**

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Anæsthesia*

Minnitt, R. J., M.D., D.A. Lectr.

Harbord, R. P., M.B., Ch.B.,  
M.R.C.S., M.R.C.P. Demr.

*Bacteriology*

Wright, H. D., B.A. Tas., M.D.,  
D.Sc. Edin., M.R.C.P. Prof.

Robinson, D. T., M.Sc. Manc.,  
M.R.C.S., L.R.C.P., Dipl.  
Bact. Manc. Senr. Lectr.

Lectrs. :

Ashcroft, L. S., M.B., Ch.B.,  
D.P.H.

Hendry, Catherine B., B.Sc. Lond.,  
Dipl. Bact. Lond.

Vaughan, A. C. T., B.Sc., M.B.,  
Ch.B.

Garrett Internat. Fellow  
and Demr.

*Cytology*, v. *Physiol. and Histol.*

*Dermatology*

Stopford-Taylor, R., D.S.O., M.B.,  
Ch.B., F.R.C.S. Ed. Lectr.

*Diseases of Children*

Capon, N. B., M.D., F.R.C.P.  
Lectr.

*Diseases, Infectious*

Hodgson, A. E., M.D. Edin.,  
D.P.H. Camb. Lectr.

*Diseases, Mental*

[Lectr.  
Reeve, E. F., M.B., B.S. Lond.]

*Diseases, Specific* [Lectr.  
Ross, A. O. F., M.D. Ed., D.P.H.

*Forensic Medicine and Toxicology*  
MacFall, J. E. W., M.D., D.P.H.,  
Ph.C. Prof.  
Grace, W. H., B.Sc. Syd., M.D.,  
D.P.H. Lond., M.R.C.P.  
Demr.

*Hygiene*  
Frazer, W. M., M.D., M.Sc.,  
D.P.H. Prof.  
Lectrs. in Pub. Health Admn. :  
Stallybrass, C. O., M.D., B.S.,  
D.P.H.  
Glover, B. T. J., M.D., D.P.H.  
(and Vaccn.).  
Crane, W., B.A., M.D., D.P.H.  
Dub. Hon. Lectr.

*Laryngology*  
Forster, H. V., M.C., M.Sc., M.B.,  
Ch.B., F.R.S.M. Lectr.

*Materia Med., Pharmacy, Phar-  
macol. and Genl. Therap.*  
Dilling, W. J., M.B., Ch.B. Aberd.  
Prof.  
Brookfield, R. W., Ph.D., M.D.,  
M.R.C.P., D.P.H.  
(Practical Therap.) Lectr.  
Goodall, Ivy, M.Sc. Asst. Lectr.

*Medicine* [Prof. & Clin. Lectr.  
Cohen, H., M.D., F.R.C.P.  
Chamberlain, E. N., M.Sc., M.D.,  
F.R.C.P. Lectr.  
Kemp, R. P., M.D., M.R.C.P.  
Research Asst.  
Davies, Sarah, M.Sc.  
Research Asst.  
Coope, R., M.D., B.Sc.  
Museum Demr.

Demrs. :  
Baker-Bates, E. T., M.D.,  
M.R.C.P.  
Cunningham, L., M.A., M.B.,  
B.Chir. Camb., M.R.C.P.  
Jones, E. Wyn, M.D., M.R.C.P.,  
D.P.H.

Owen, D. U., M.D., M.R.C.P.,  
D.T.M.

Clinical Lectrs. :  
Bigland, A. D., M.A., M.D.,  
F.R.C.P.  
Bligh, J. Murray, M.D., F.R.C.P.  
Capon, N. B., M.D., F.R.C.P.  
Johnson, W., M.D., F.R.C.P.  
Jones, H. Wallace, M.Sc., M.D.,  
D.Ch.O., F.R.C.P.  
Pemberton, H. S., M.B., Ch.B.,  
M.R.C.P.  
Wadsworth, T. W., M.D., D.P.H.,  
F.R.C.P.

*Obstetrics and Gynaecology*  
Robinson, A. L., M.D., B.S. Lond.,  
F.R.C.S., F.C.O.G.  
Prof. & Clin. Lectr  
Gemmell, A. A., M.A., M.D. Camb.,  
F.R.C.S.E., F.C.O.G.  
Lectr. & Clin. Lectr.  
Herd, S. B., M.D., M.C.O.G.  
Asst. Lectr.

Demrs. :  
Malpas, P., M.B., Ch.M., F.R.C.S.,  
M.C.O.G.  
Datnow, M. M., M.D., M.C.O.G.,  
F.R.C.S.E.  
Jeffcoate, T. N. A., M.D.,  
F.R.C.S.E., M.C.O.G.  
Hon. Sub-Curator and  
Tutor.  
Hamilton, C. J. K., M.A., M.B.,  
B.Ch. Camb., F.R.C.S.E.  
Resident Asst. and Tutor.  
Hartley, R. L., M.B., Ch.B.  
Boyce Fellow.

Clinical Lectrs. :  
Burns, J. W., B.A., M.D. Dub.,  
F.R.C.S.E., F.C.O.G.  
Gemmell, A. A., M.A., M.D. Camb.,  
F.R.C.S.E., F.C.O.G.  
Nicholson, Ruth, M.B., M.S.,  
B.Hy., D.P.H. Durh., F.C.O.G.  
Walsh, C. H., M.B., Ch.B., D.P.H.,  
M.C.O.G.  
Wilson, J. St. G., M.B., Ch.M.,  
F.R.C.S., F.C.O.G.

*Ophthalmology*

Chavasse, F. B., M.C., M.A.,  
M.D., D.O.M.S. Ox. Lectr.

*Pædiatrics (Clinical)*

Bligh, J. Murray, M.D., F.R.C.P.  
Capon, N. B., M.D., F.R.C.P.  
Johnson, W., M.D. Lond.,  
F.R.C.P.  
McMurray, T. P., Ch.M., F.R.C.S.  
Ed.  
Thompson, W. A., M.Ch. Belf.,  
F.R.C.S. Ed.

*Pathology*

..... Holt Prof.  
Hewer, T. F., M.D., M.R.C.P.  
Senr. Lectr.  
Evans, W. Howel, B.Sc., M.D.  
Hon. Lectr.  
Jones, R. Watson, B.Sc., M.B.,  
M.Ch.Orth., F.R.C.S.  
Hon. Lectr.  
..... Lectr.  
McCall, A. J., M.B., Ch.B.,  
M.R.C.S., L.R.C.P. Lectr.  
Harwood, H. F., M.B., Ch.B.  
Holt Fellow.

*Pharmacology and Genl. Therap.,*  
v. Mat. Med., etc.

*Public Health, v. Hyg. and Chem.*

*Radiology*

Roberts, R. E., B.Sc., M.D.,  
D.M.R.E., D.P.H. Lectr.  
Asst. Lectrs. :  
Mather, J. H., B.Sc., M.B., Ch.B.,  
D.M.R.E.  
Walker, Nora M., M.B., Ch.B.  
Vict., D.M.R.E.  
Whitaker, P. H., M.B., Ch.B.,  
M.R.C.S., L.R.C.P., D.M.R.E.

*Surgery*

Kelly, R. E., C.B., M.D., B.Sc.,  
F.R.C.S.  
Prof. and Clin. Lectr.

Kennon, R., M.C., M.D., F.R.C.S.  
(S. and Oper. S.)

Lectr., also for Dental  
Students and Clin.  
Lectr.

Wells, C. A., M.B., Ch.B., F.R.C.S.  
Jnr. Lectr.

Jones, R. Watson, B.Sc., M.B.,  
Ch.B., M.Ch.Orth., F.R.C.S.

Jnr. Lectr. and Lectr.  
Clin. Orthop.

Reid, H., M.B., Ch.B., F.R.C.S.,  
L.R.C.P.

Museum Demr. and Clin.  
Lectr. Dental Students.

Ross, J. C., Ch.M., F.R.C.S.  
(Oper. S.) Hon. Demr.

Henry, L., M.B., Ch.B.  
Thelwall Thomas Fellow.

Thomas, G. E., M.B., B.S. Lond.,  
M.B., Ch.B., M.Ch.Orth.,  
F.R.C.S.E.

Lady Jones Fellow.

*Other Clinical Lectrs. :*

Simpson, G. C. E., O.B.E., B.A.,  
M.B., B.Ch. Camb., B.Sc.,  
F.R.C.S.

McMurray, T. P., Ch.M. Belf.,  
F.R.C.S.E. (Orthop.) (Direc-  
tor of Orthop.).

Unsworth, S. V., M.B., Ch.B.,  
F.R.C.S.

McFarland, B. L., M.D., M.Ch.  
Orth., F.R.C.S.E. (Orthop.)

Rawlinson, J. H., M.B., Ch.B.,  
F.R.C.S.E.

Morrison, J. T., O.B.E., M.B.,  
Ch.B., F.R.C.S.

Williams, O. Herbert, M.B., Ch.B.  
Edin., F.R.C.S., D.P.H. Ox.

Heaney, F. J. Strong, M.A., M.D.,  
F.R.C.S.I.

Wolfenden, H. F., M.D., F.R.C.S.

*Tropical Diseases of Africa*

Gordon, R. M., B.A., Sc.D., M.D.  
Dub., D.P.H. Dub., D.T.M.,  
D.T.H. Prof.

*Tropical Hygiene*

Blacklock, D. B., M.D., D.P.H.,  
D.T.M. Prof.

*Tropical Medicine*

Yorke, W., M.D., F.R.C.P., F.R.S.  
A. Jones Prof.

*Vaccination, v. Hygiene***Dentistry**

Stones, Prof. H. H., Director of  
Dental Education (*v. also D.*  
*Surg.*).

*D. Anæsthesia*

Smith, G. F. R., T.D., M.B., B.S.  
Lond., M.D., D.A. Lectr.  
Rotheram, W., B.D.S. Demr.

*D. Anat., Histol., and Physiol.*

Guyler, T. W. C., B.D.S. Demr.

*D. Mechanics and Prosthetics*

Watt, G. V., L.D.S. Supervisor.

*D. Metallurgy, v. Metall. supra**D. Surgery*

Stones, H. H., M.D.S. Manc.,  
L.D.S. Cohen Prof.  
Lovel, R. W., L.D.S. Lond.,  
D.D.S. Chic. (Clin. and Op. D.  
*Surg.*) Demr.

*D. Surgery, Clin.*

6 Lectrs. ; 1 Tutor.

*D. Surgery, Operative*

Collinge, J. S. H., L.D.S. Lectr.  
Ball, G. S., L.D.S. Demr.

*Orthodontia*

Watkin, H. G., L.D.S. Lectr.

*Radiology*

Roberts, J. G., L.D.S.  
Hon. Demr.

## Curator of Museum :

Woods, E. C., L.D.S.

Shute Lecturer (Art of the  
Theatre)

1937-38—Prof. J. Dover Wilson,  
C.H., M.A., Litt.D., F.B.A.  
(Edinburgh Univ.).

**Frazer Lecturer** (Social An-  
thropology—in rotation with  
Oxford, Cambridge and Glas-  
gow)

1937—Prof. H. Balfour, M.A.,  
F.R.S.

**William Mitchell Banks Memorial  
Lecturer**  
(every 2nd yr.)

**Lady Jones Lecturer** (Orthopædic  
*Surg.*—every 2nd yr.)

1937—W. Mercer, M.B., Ch.B.,  
F.R.C.S.E. (Edinburgh Univ.).

**James W. Alsop Lecturer** (Music)

1937-38—Sir Donald F. Tovey,  
B.A., D.Mus. Ox., M.Mus.  
Birm.

**Sydney Jones Lecturer** (Art)

1937-38—F. Lambert, M.A., F.S.A.  
1938-39—C. Marriott, A.R.I.B.A.

**University Extension**

Officer for Extra-mural Studies :

A. McPhee, M.A., B.Com. Edin.,  
Ph.D. Lond.

Joint Secs. to the Jt. Committee  
on Tutorial Classes :

F. Garstang.

A. McPhee.

## ASSOCIATED AND AFFILIATED INSTITUTIONS

INSTITUTE OF ARCHÆOLOGY, Abercromby Square, Liverpool. Associated  
Teachers additional to the staff of the Faculty—*Assyriology*, . . . . ; *Numis-  
matics*, Milne, J. G., M.A., D.Litt. ; *Central American Arch.*, Gann, T. W. F.,  
M.R.C.S., L.R.C.P., F.R.A.I.

LIVERPOOL OBSERVATORY AND TIDAL INSTITUTE. Observatory est. 1845, Tidal Institute, 1919. Administered by a Joint Committee representing the Univ. Council and the Mersey Docks and Harbour Board. Director, Prof. J. Proudman, M.A., D.Sc., F.R.S. Assoc. Dir., A. T. Doodson, D.Sc., F.R.S. *See also* App. III. A. IV.

ST. AIDAN'S COLLEGE, Birkenhead. Principal, Rev. F. B. Heiser, M.A. Ox. Certain courses (not given in the Univ.) are recognized as Univ. courses in part for the ordinary degree of B.A. Recognized Teacher in *Eccl. Hist.*, Steinly, Rev. E., M.A.

EDGE HILL TRAINING COLLEGE, Ormskirk. Principal, Miss E. M. Smith, M.A. Recognized Teachers in *Maths.*, the Principal; *English Lit.*, Deakin, Miss M. H., M.A.

MOUNT PLEASANT TRAINING COLLEGE. Principal, Miss C. Holcroft, B.A. Recognized Teachers in *Latin*, Sampson, Miss M., M.A.; *English Lit.*, .....

DIOCESAN TRAINING COLLEGE, Chester. Principal, Rev. H. Stanley Astbury, M.C., M.A. Camb. Recognized Teachers: Pickup, E., B.A. (in *French*); Bradbury, J. L., M.A. (in *Engl. Lit.*); Stephens, J. S., B.A. (in *Geog.*); Vincent, C. J., M.A. Glas., B.A. Lond. (in *Hist.*); Hooper, F. W., B.Sc., A.I.C. (in *Chem. and Physics*); Lewis, W. E., M.A. (in *Maths.*).

THE HARRIS INSTITUTE, Preston. First year of Degree Course (Engineering).

SCHOOL OF TROPICAL MEDICINE, Pembroke Place, Liverpool. Ward for Tropical Diseases at Royal Infirmary, Liverpool. Research laboratory at Sierra Leone. For training in the conduct of original research and organization of prophylactic measures. Has sent numerous expeditions to tropical countries. Publishes *Memoirs* and *Annals*. For staff, v. *supra*—Trop. Med., Trop. San., Parasit., Entom., Hygiene. D.T.M. course, 3 mos. D.T.H. course, 3 mos. after taking D.T.M.

PATHOLOGICAL LABORATORY, County Mental Hospital, Rainhill.

FACULTY OF MEDICINE: 20 general and special hospitals are affiliated for the purpose of clinical or practical work required for degrees and diplomas in the Faculty of Medicine.

## GENERAL INFORMATION

University College, Liverpool, founded by Royal Charter 1881, was admitted into the Victoria University, Manchester, in 1884. In 1903 the University of Liverpool was established by Royal Charter and the College was absorbed in it.

LIBRARY, MUSEUMS, ETC. The library of the Univ. contains about 190,000 vols., including a valuable collection of academies and periodicals and great series, such as Migne, Pertz, Muratori, Acta Sanctorum, and the Corpus Vindobonense. Among rarer possessions are the Rylands collection of early works on Geography and Astronomy, a collection of works by and about William Blake, sets of the Roxburghe, Bannatyne, and Maitland Clubs, the William Noble Library and the Scott Macfie collection of Gypsy Lore books, a unique number of Aldines, and over 175 *incunabula*, the earliest specimen of printing being a leaf of the 42-line Bible, *circa* 1454, and the final sheets of the Constitutiones of Clement V. printed at Mainz in 1460. Special bibliographies have been issued. In addition there are twenty-three Class Libraries



in the Faculty of Arts and External Departmental Libraries for the Medical and Science Depts.

The following are the principal MUSEUMS AND LABORATORIES: Anat., Archæol. (including a unique Hittite collection), Archit., Bact., Biochem., Bot., Chem., Physical and Electro-Chem., Elect. Engin., Embryol. and Genetics, Engin. (including facilities for aerial motor and propeller testing and other wind experiments), Geol., Hygiene, Laryngology, Materia Medica, Med., Trop. Med. (including museum, animal houses, and specially warmed glass insectarium, and research labs. at Liverpool and Sierra Leone), Obst. and Gynæc., Oceanog., Ophth., Path., Physics, Physiol. and Histol., Surg. Path., Tidal Research, Toxicology, Vet. Anat. and Path., Zool. The Port Erin (Isle of Man) Marine Biol. Lab. has been transferred to the Univ. by an Act of Tynwald. *See also* App. III. A. III. HOSPALS. available for Clinics, 4 general and 5 special, containing about 1500 beds. The trade of the port ensures frequent cases of infection. Special wards for Trop. Diseases. Expeditions to Tropical countries organized for investigation or advice. Suitably qualified persons may enter the Labs. for research at prescribed fees.

FACULTIES. (1) Arts (with Schools of Archit., Archæol., Social Sciences and Administration (including Economics, Commerce, Geography, Social Science and Publ. Administn.), Local History and Records, Russian Studies; Departments of Civic Design and Educn.); (2) Science (with Liverpool Observatory and Tidal Institute and Port Erin Biological Station); (3) Medicine (with Schools of Dent. Surg., Hygiene, Trop. Med., Vet. Sc.); (4) Law; (5) Engineering. *Deans*: (1) Mr. F. J. Routledge (Mod. Hist.), (2) Mr. S. T. Burfield (Zool.), (3) Prof. W. H. Wood (Anat.), (4) Prof. F. R. Batt (Commercial Law), (5) Prof. C. O. Bannister (Metallurgy). Director of Dental Educn., Prof. H. H. Stones (Dent. Surg.); of Veterinary Studies, Prof. J. Share-Jones (Vet. Anat.).

ADMISSION. *See* Appendix I.

DEGREE COURSES. B.A., B.Com., B.Sc., LL.B., 3 yrs.; B.Eng., 3 or 4 yrs. (plus 2 yrs.' apprenticeship); B.Arch., B.V.Sc., 5 yrs.; M.B., Ch.B., not less than 6 yrs. subsequent to admission to the Fac. of Med.; B.D.S. not less than 5 yrs. subsequent to admission to the Fac. of Med.

The degree of B.A. is conferred either as a degree in General Studies or as a degree in Special Studies in one of the Schools of the Faculty. Honours may be awarded in both General and Special Studies.

The B.Com. courses include (1) General Business; (2) Banking, Insurance, Accounting; (3) Transport, Railways, Shipping; (4) Consular Service.

The LL.B. courses prepare for the Bar and solicitors' examns. as well as for the Degree.

The B.V.Sc. may be taken concurrently with the M.R.C.V.S.

HIGHER DEGREES. Ph.D., v. p. 13. Faculty of Arts: Litt.D.—On published contributions to learning, after report, upon Masters of Arts after 7 yrs. from date of admission to the degree of B.A. M.A.—2 yrs.' directed study after Hons. B.A. Dissertation with or without examn., or report on 2 yrs.' research work. 2 yrs.' directed study after Ord. B.A., or B.Arch. (Ord. or Hons.); dissertation with or without examn. Other graduates or candidates who have passed a final degree examn. eligible under certain conditions after 2 yrs.' higher study. Other approved candidates, 3 sessions. M.Arch.—On architectural work of a distinguished character, after report; 10 yrs. from taking B.Arch. M.Com.—2 yrs.' directed study after B.Com. or B.Com.Sc., by examn. or by presenting dissertation. Other graduates eligible under certain conditions after 2 yrs.' higher study. Faculty of Law: LL.D.—On published

contributions to learning, after report, after 5 yrs. from taking LL.M. LL.M.—2 yrs.' directed study after Hons. LL.B. Holders of ord. LL.B. take examn. or present a dissertation in addition. Other grads. or candidates who have passed a final degree examn. eligible under certain conditions after 2 yrs.' higher study. Other approved candidates, 3 yrs. Faculty of Science: D.Sc.—On published contributions to Science, after report; candidates to be graduates of Liverpool of not less than 6 yrs.' standing. M.Sc.—Hons. B.Sc., 1 session higher study or research; Ord. B.Sc., 1 yr.'s higher study and passing a prescribed examn. Subsequently, 3 terms' higher study or research. Persons who pass the Final B.Sc. examn. at the end of the second year, 1 session after passing a prescribed examn., and subsequently 6 terms' higher study or research. Other grads. or candidates who have passed a Final degree examn., 2 sessions. Other approved candidates, 3 sessions. Faculty of Medicine: M.D.—(a) 2 yrs. after M.B., Ch.B., thesis with, if candidate desires, copies of published original papers upon Med. Sci. Oral examn. on subject of thesis. (b) 5 yrs. after M.B., Ch.B., examn. in Med. and in a selected branch of Med. Ch.M.—2 sessions after M.B., Ch.B., by examn. M.Ch.Orth.—15 months after M.B., Ch.B. or equivalent, by examn. The M.Ch.Orth. is open to grads., other than Med., of this or approved Univs. who are F.R.C.S. (Eng., Ed., or I.) or Fellows of the American Coll. of Surg. Master of Dental Surgery (M.D.S.) 2 yrs.' standing from taking B.D.S., 3 yrs.' standing (with 1 yr.'s higher study or research) from equivalent to B.D.S. Thesis and special examn. or wholly by examn. All types of candidates must also attend course of study or Hospital Practice as prescribed by regulations. D.V.Sc.—On published contributions to Vet. Sci., after report, after 3 yrs. from taking M.V.Sc. M.V.Sc.—2 sessions of higher study after B.V.Sc. (or equivalent), by thesis and possibly by examn. Faculty of Engineering: D.Eng.—On published contributions to Engin., after report, on Masters of Engineering or Doctors of Philosophy (Fac. of Engin.), after 5 yrs. from taking such degree. M.Eng.—2 yrs.' practice after Hons. B.Eng. 2 yrs.' practice and either (a) one of such years in higher study and report, or (b) on presenting dissertation, after ordinary B.Eng. Other grads., 2 yrs.' higher study and thesis. Other approved candidates 3 yrs. with examn. and thesis.

**DIPLOMAS.** Archæol., 1 yr. after Certif. in Archæol.; Archit., 5 yrs.; Civic Design, 1 yr. after Certif. in Civic Design or for graduates and others suitably qualified; Commerce, 3 yrs.; Educn., 1 yr. for graduates; Public Admin., 3 yrs., 2 yrs. or 1 yr. for suitably qualified candidates; Engin., 2 yrs.' practice of Engin. after final examn. for Certif. (including 1 yr.'s approved study or dissertation except for candidates who passed in 8 papers in final Certif. examn.); L.D.S., not less than 4 yrs. subsequent to registration as dental student. Post-graduate medical and veterinary diplomas: D.P.H., 9 mos. or 1 yr.; D.T.M. (Trop. Med.), 3 mos.; D.T.H. (Trop. Hyg.), 3 mos. after D.T.M.; D.M.R.E. (Med. Radiol. and Electrol.), 1 yr.; D.V.H. (Vet. Hyg.), 6 mos.

**CERTIFICATES.** Archæol., 2 yrs.; separate Arts subjects, 2 yrs.; Architectural Design, 1 yr.; Civic Design, 2 terms for 2 yrs.; Social Science, 1 or 2 yrs.; Educn., 1 yr. for graduates and others suitably qualified; Engin., 3 yrs. (2 yrs. for candidates who have taken appd. techn. course); University Extension courses, 1 yr.

**FEES.** For Matricn., £2. Guild of Undergrads., £3:3s. p.a. **DEGREE COURSES:** B.A., or B.Com. (3 yrs.), £90 (B.A. Special Studies, 4th yr. £10; B.Com. Hons., 4th yr. £10); M.A. or M.Com. (sessional), £5; B.Arch. (5 yrs.), £150; B.Sc. (3 yrs.), £105 to £120 (B.Sc. Hons., 4th yr. £30 or £40); M.Sc.

(sessional), Maths., £5; other subjs., £10; M.B., Ch.B. (6 yrs.), £260; M.D. (sessional), £10; Ch.M. (2 yrs.), £20; M.Ch.Orth. (15 mos.), £41; B.D.S. (5 yrs.), £250, and for students taking Dental Mechanics with a private practitioner, £160; M.D.S. (2 yrs.), £22 or £27; B.V.Sc. (5 yrs.), £175; M.V.Sc., 1st yr., £30, 2nd yr., £20; LL.B. (3 yrs.), £48:12s.; LL.M. (sessional), £5; B.Eng. (3 or 4 yrs.), £144-£192; M.Eng. (Research), £20; Ph.D. (9 terms or 2 calendar yrs.), £40:10s. or £27. Apparatus fee per session for candidates taking Research and Ph.D. (Sc., Med., Eng., except Maths.), £10. DIPLOMA COURSES: Archit. (5 yrs.), £150; Civ. Des. day, £22:10s.; Educ. (1 yr.), £35; Com. (3 yrs.), £90; Archæol. (1 yr.), £10; Public Admin. (3 yrs.), £30; D.P.H. (1 yr.), £47; D.T.M. (3 mos.), £21; D.T.H. (3 mos.), £12:16s.; D.M.R.E. (3 terms), £31:10s.; Course in Operative Surg. for F.R.C.S., £5:12s.; L.D.S. Liv., £198, and for students taking Dental Mechanics with a private practitioner, £138:15s.; M.R.C.V.S. (5 yrs.), £150; D.V.H. (6 mos.), £21; Eng., 1 yr. after taking Certif. in Engin., £48 per session. CERTIFICATE COURSES: Archit. Des. (1 yr.), £35; Civ. Des. (2 terms for two sessions), £10; Soc. Science (2 yrs.), £28; Archæol. (2 yrs.), £30; Educ. (1 yr.), £35; Engin., 2 or 3 yrs. at £48 per session. Separate Arts Subjects: as for separate courses.

EXAMN. FEES. M.B. and Ch.B., B.D.S., £15; B.V.Sc., £19; B.Arch., £5:10:6; B.Eng., £6; other Bachelor degrees, £4 or £6; Master's degree (examn. or on application), Ch.M., M.Ch.Orth., M.V.Sc., M.D.S., £5; others, £3; M.Sc., qual. examn., £2; Doctor's (examn. or on application), Ph.D., £8; others, £10. Diploma examns., L.D.S., £15; Comm., £4; Archæol., £3; Public Admin., £1; Civic Design, £1:10:6; Architect., £5:10:6; Educn., £2; Eng., £3; others, 5 gs. Certif. Examns., Eng., £6; others, £2. Degree Admission Fees, £6 for first degree, subsequent degrees, £5; Dipl. Eng., £3; Certif. Eng., £2; others, £1.

POST-GRADUATE SCHOLARSHIPS, ETC. A large number of valuable Fellowships and Scholarships are offered annually in all faculties. For Garrett International and Johnston Fellowships for Research and Ridgway Research Scholarship, v. App. II. 16, 18.

RESIDENCE, ETC. A Hall of Residence for 108 men (fees, £70); one for about 130 women (fees from £65 to £72). Students' Union Club House and Extension cost £70,700.

APPOINTMENTS. Secretary, S. W. C. Phillips, B.A. Secy. for Women's Appointments, Miss E. A. Buller, B.A., University Hall, Holly Road, Fairfield, Liverpool 7.

ASSOCIATION OF GRADUATES. Besides "Convocation," there is a Liverpool University Society, with mainly social functions.

A UNIVERSITY EXTENSION BOARD and a University Joint Committee on Tutorial Classes are responsible for extra-mural work. There are travelling libraries for local centres.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Diary* (Oct.), free to members of the Univ.; *Prospectuses of Faculties and Schools* (July), free; *Students' Handbook* (Oct.), free; *Students' Magazine*, *The Sphinx*, 6d. (4 numbers per session); *Report on Research and other Original Work* (Nov.), free; *Inaugural Lectures*. Issued in 1920, *inter alia*, School of Tropical Medicine Historical Record, 1898-1920, 10s. 6d.; *A Brief Record of Work and Progress* (1882-1907; 1903-28).

## THE YEAR 1936-37

BENEFACTIONS. Trustees of the late Mr. John Rankin, £20,000 for the New Men's Hall of Residence. Leverhulme Trustees, Renewal of grant of £10,000

for further period of 3 yrs. Executors of late Mr. Walter Harding : £4205 : 17 : 11. Royal Society, £3000 for apparatus and £1000 p.a. for 5 yrs. for technical assistance and current expenses for Dept. of Physics. Dental Board of the U.K., £4000 towards cost of alteration, extension and equipment of premises of Dental School. Rockefeller Trustees, \$5000 for expenses of a comparative study of languages to be undertaken by Prof. Collinson. Cassell Trustees, £400 p.a. for 3 yrs. for teaching of Spanish. Executors of late Mr. John Gibson Evans, £500. Contributions to University Gift Fund, £450. Executors of late Mrs. Margaret Isaacson, £300 for augmentation of funds of John Bury Scholarship.

**NEW BUILDINGS.** Cohen Library and Harding Gymnasium in course of erection.

**NEW POSTS.** Chair of Mediæval Hist. Honorary Lectureships in : English Lang. and Lit., Zool., Rural Planning. Lectureship in Experimental Zool. Sub-Dean of Faculty of Medicine for Clinical Studies. Lectureship in Applied Anat. (Radiological).

**DEVELOPMENTS.** Establishment of Board of Clinical Studies in place of Clinical School.

**CHANGES IN REGULATIONS.** D.Sc. : now open to graduates of the Univ. of at least six yrs.' standing. M.Sc. : now allows more latitude in length of minimum period of research required from candidates holding a degree qualification of other Faculties or Univs. B.Sc. : revised so as to allow greater elasticity in courses and broadening of curriculum. M.B.Ch.B. : Maths. no longer a compulsory subject in the examn. for matriculation or exempting examn. M.Ch.Orth. : Bacteriol. included in course for Pathol. and course in Radiol. and Physiotherapy extended from 3 to 6 months.

**EXTRA-MURAL WORK.** Extension lectures were given to the general public, to Teachers, Technical Colls. and Secondary Schools, in the area from Barrow in the north to Crewe in the south, and from Wigan to the coast. The Univ. Extension Board arranged courses and single lectures at 36 centres, and 70 lectures were given. 64 Tutorial Classes and one Preparatory Tutorial Class arranged in conjunction with the W.E.A. Students on Roll, 1047. Series of popular afternoon and evening lectures at the Univ.

**VISITORS TO THE UNIVERSITY.** Dr. Stanley Marchant, "The Development of Musical Taste"; Mr. W. Tyrone Guthrie, "The Contribution of the Audience to the Modern Theatre"; Prof. W. G. Constable, "Artistic Relations of England and Italy"; Mr. George Evans, "Public Assistance"; Mr. W. B. Potts, "The Work of the Employment Exchanges"; Dr. R. Gamlin, "The School Medical Service"; Mr. L. R. Missen, "The Local Authority and Adult Education"; Mr. Alan Stewart, "National Health and Pensions Insurance"; Prof. A. Carnoy, "L'Unité dans le langage"; Mr. Leon Simon, "The Revival of Hebrew"; Dr. Li Chi, "Ancient China in the Light of Recent Archæological Discoveries"; Very Rev. W. R. Matthews, "Some Fundamental Problems of Christian Ethics"; Mr. Walter Mercer, "Anomalies of the Fifth Lumbar Vertebra : Reflections and Experiences"; Dr. Angel Valbuena Prat, "Contemporary Spanish Poetry"; Don Juan Maragall, "Catalan Art"; Prof. José Castillejo, Prof. Lorenzo Luzuriaga, Prof. Hernando Balmori, special lectures on "Various Aspects of Spanish Life and Thought."

**VISITS TO OTHER UNIVERSITIES.** Mr. W. Dougill, Cadbury lectures at Univ. of Birmingham; Prof. R. E. Kelly, visiting Prof. of Surgery at St. Bartholomew's Hospital, London.

**RETIREMENTS.** Prof. E. C. C. Baly (Inorg. Chem.); Mr. Edward Carey (Registrar); Prof. W. Mason (Eng. App. Mech.); Mr. J. Shawcross (Engl. Lit.); Associate Prof. C. E. Walker (Cytol. and Histol.).

**RESIGNATIONS.** Prof. A. M. Carr-Saunders (Soc. Sci.), on appt. as Director, London School of Econ. and Polit. Sci.; Miss J. M. S. Cotton (Italian), on marriage; Prof. J. H. Dible (Path.), on appt. as Prof. of Path., British Post-Grad. Med. School, London; Mr. L. J. Edwards (Univ. Exten.), on appt. as Genl. Secretary Designate, Post Office Eng. Union; Mr. E. A. Ferriby (Architect.), on appt. to post in Housing Dept. of Liverpool Corporation; Mr. G. B. A. Fletcher (Greek), on appt. as Prof. of Classics, King's Coll., Newcastle; Mr. R. J. Getty (Latin), on appt. as Fellow of St. John's Coll., Cambridge; Mr. A. D. Harper (Anat.), on taking up private practice; Mr. A. S. Kerr (Surg.), on being awarded Scholarship to U.S.A.; Dr. J. Libman (Med.), on taking up private practice; Dr. J. C. Prescott (Elec. Eng., and Warden, Halls of Res. for Men), on appt. as Prof. Elect. Eng., King's Coll., Newcastle; Mr. L. F. Richards (Architect.), on appt. as Lectr. at Northern Polytechnic, London; Dr. O. K. Schram (Engl. Lang. and Philol.), on appt. as Lectr. at Edinburgh Univ.; Mr. H. Smith (Commerce), on appt. as Lectr. Ruskin Coll., Oxford; Rev. C. J. Mullo Weir (Hebrew and Ancient Semitic Langs.), on appt. as Prof. Hebrew and Semitic Langs. Univ. Glasgow; Mr. H. A. Whitaker (Civil Eng.), on appt. as Deputy County Surveyor, West Riding, Yorks.

**DEATHS.** Sir John A. F. Aspinall (Railway Eng.); Miss Alwen M. Evans (Entomol.); Dr. S. F. Grace (App. Maths.); Assoc. Prof. W. Garmon Jones (Librarian); Mr. J. L. Stocks (Vice-Chancellor).

**HONORARY DEGREES.** *Litt.D.*—René Dussaud, Sir Henry Stuart Jones. *D.Sc.*—Charles Thomas Rees Wilson. *LL.D.*—Sir Hector Hetherington, Charles Sydney Jones, Rt. Hon. Viscount Leverhulme, Sir Frederick Morton Radcliffe. *D.Eng.*—Arthur Percy Morris Fleming. *M.A.*—William George Brandwood, Albert Edward Evans, Charles William Sharpe. *M.Eng.*—Ralph Ernest Gibson.

**STUDENTS.** Full-time: 2086, including 257 graduates. Part-time: 432, including 282 graduates.

**DEGREES.** B.A. Spec. Studies, 1; B.A. Hons. Spec. Studies, 46; B.A. Gen. Studies, 53; B.A. Hons. Gen. Studies, 4; M.A., 23; B.Arch. Ord., 10; B.Arch. Hons., 17; B.Com. Ord., 5; B.Com. Hons., 3; LL.B. Ord., 5; LL.B. Hons., 17; LL.M., 9; B.Sc. Ord., 34; B.Sc. Hons., 53; M.Sc., 10; D.Sc., 1; B.Eng. Ord., 21; B.Eng. Hons., 24; M.Eng., 18; M.B., Ch.B., Ord. 53; M.B., Ch.B. Hons., 3; M.D., 10; Ch.M., 1; M.Ch.Orth., 8; B.D.S. Ord., 4; B.D.S. Hons., 3; M.D.S., 1; B.V.Sc., 4; Ph.D. (Sci.), 12; Ph.D. (Engin.), 2.

# UNIVERSITY OF LONDON

Founded 1836

The Senate House, London, W.C.1 (Temporary Entrance, Montague Place).

Telegraphic address : University, London.

Telephone : Museum 8000.

VISITOR—H.M. THE KING IN COUNCIL.

CHANCELLOR—The Rt. Hon. the EARL OF ATHLONE, K.G., P.C.,  
G.C.B., G.C.M.G., G.C.V.O., D.S.O., LL.D., D.C.L., F.R.S.

VICE-CHANCELLOR—Sir ROBERT H. PICKARD, D.Sc., Ph.D., F.R.S.

CHAIRMAN OF CONVOCATION—S. L. LONEY, M.A. Camb., B.A.

CHAIRMAN OF THE COURT—The Rt. Hon. LORD MACMILLAN, G.C.V.O.,  
M.A., LL.D.

PRINCIPAL—H. L. EASON, C.B., C.M.G., M.D., M.S., F.R.C.S.

CLERK OF THE COURT—H. CLAUGHTON, C.B.E., B.A. Ox.

SECRETARY TO THE SENATE—MAURICE WEBB, C.I.E., M.A. Ox.

ACADEMIC REGISTRAR—S. J. WORSLEY, D.S.O., M.C., B.A.

EXTERNAL AND UNIVERSITY EXTENSION REGISTRAR—ARTHUR CLOW  
FORD, M.B.E., B.A.

SECRETARY OF THE MATRICULATION AND SCHOOL EXAMINATIONS  
COUNCIL—S. H. SHURROCK, M.A. Ox.

SUPERINTENDENT OF EXAMINATIONS—R. B. P. WALLACE, B.A.,  
LL.B. Camb.

GOLDSMITHS' LIBRARIAN—R. A. RYE.

MAINTENANCE OFFICER AND ASSISTANT CLERK OF THE COURT—M. R.  
BONAVIA, M.A. Camb.

REPRESENTATIVE IN PARLIAMENT—See p. 18.

The several Incorporated Institutions, Departments, and Schools of the University, together with other Institutions having Recognized Teachers, are referred to on pp. 136-223 below.

University teaching is organized under 3 categories: (1) conducted by the Univ. itself; (2) conducted by the several "Schools of the Univ."; (3) conducted at the other Institutions at which there are "Recognized Teachers of the Univ." For explanation of these terms, see below.

## GENERAL INFORMATION

*The University authorities desire that it should be clearly understood that they can accept no responsibility for any information concerning examns. or procedure except such as is contained in their own official Regns. These can always be obtained on application at the Univ. offices.*

The Univ. was constituted by Royal Charter in 1836 as a body empowered to grant degrees to students of approved institutions after examination, and, until 1900, its work was confined to the examination of students. The system whereby entrance to its examns. was restricted to students of certain affiliated Colleges was abolished, except for examns. in Medicine, in 1858. In 1878 its degrees were thrown open to women, London being the first of the Univs. of Great Britain to adopt this policy.

In 1900 the Univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in Higher Education within a radius of 30 miles. The Senate was empowered to admit as *Schools of the University* institutions situated within the administrative county of London and not carried on for the private gain or profit of the owners which provide education of Univ. standard, and required to obtain reports at prescribed intervals on the efficiency of such schools. A special form of recognition could be given to an institution within the same area founded for research or the cultivation of any special branch of science or learning, and the Lister Institute of Preventive Medicine, the Maudsley Hospital, the Bethlem Royal Hospital, the School of Pharmacy, and the School of Oriental Studies have been admitted in this category.

The two original Colleges of the Univ. have been incorporated in it, the University Coll. in 1905 and King's Coll. in 1908, the Senate taking over the responsibility for their administration.

Further changes in the constitution of the Univ. were made by the Statutes under the University of London Act of 1926. These Statutes came into force in March 1929. The most important change was the creation of a new body known as the Court, which is responsible for the finances of the Univ.

**COURT.** Under the Statutes, the Court has the custody, control and disposition of all the property, funds and investments of the Univ. and controls its finances. One of its most important duties is to distribute among the Schools the grants received for the purpose from the Government, the London County Council and other bodies. Prior to the reconstitution the Government grant had been allocated to Schools by the University Grants Committee.

The Court is also responsible for the development of the Bloomsbury site and the Buildings.

**SENATE.** Under the Statutes the Senate is the supreme governing and executive body of the Univ. in all academic matters. It has power to recognize as Teachers of the Univ. any members of the teaching staff of public educational institutions, whether Schools of the Univ. or not. Matriculated students of Schools of the Univ. or studying under such *Recognized Teachers* are eligible under certain conditions for registration as *Internal Students*, and are allowed, after pursuing Approved Courses of Study, to enter for the "Internal" examns. of the Univ. *External Students* may pursue their studies where and how they please, and are admitted, without any conditions as to attendance at Approved Courses but after a specified period of Registration, to examns. for degrees in all subjects except Medicine, Pharmacy, Mining, Engineering, and Architecture. The examns. for Internal and External students are in some cases separate, in others identical.

**LIBRARIES.** The libraries belonging to the Univ. of London contain in the aggregate c. 767,000 vols. and pamphlets distributed in three chief centres, as follows: (1) *The University Library* \* at S. Kensington (c. 310,000 vols. and pamphlets), which provides a free lending library for students and well-

\* Part of the library was moved from S. Kensington to the new building in Bloomsbury in October 1937.

equipped research libraries for post-graduate students, incl. the Goldsmiths' Library of Econ. Literature, foremost, on the historical side, among the econ. libraries of the country (c. 60,000 vols. and pamphlets). (2) *Univ. Coll.*, Gower Street (c. 377,000 vols. and pamphlets), incl. the General Library, a series of separate "seminar" libraries (known as the Arts Libraries), the Science Library, the Med. Sciences Library, and the Law Library. (3) *King's Coll.*, Strand (c. 80,000 vols. and pamphlets), incl. a general library and several special collections. The libraries of the Institute of Historical Research, the Courtauld Institute, the Francis Galton Laboratory, the Commerce Degree Bureau, and a small students' library at Goldsmiths' Coll., New Cross, are also the property of the Univ.

There are also important specialized and general libraries belonging to the Schools and Institns. of the Univ., incl. those of the Med. Schools, the London School of Hygiene and Trop. Medicine, the Royal Coll. of Music, the School of Oriental Studies, and the London School of Economics.

Full particulars of the above are included in R. A. Rye: *Students' Guide to the Libraries of London* (v. *infra*—Publications).

**MUSEUMS.** Among the many Museums which, in addition to those belonging to the Schools and Institns. of the Univ., are accessible to students in London are the British Museum (Antiq. and Nat. Hist.); Horniman (Anthrop. and Zool.); London; Parkes (Sanitary Science); Practical Geol.; Roy. Archit. Soc.'s; Roy. Coll. of Surgeons'; Science, S. Kensington (Mech., Nav., and Struct. Engin., Phys., Maths., Chem., Physiog., Geol., and Biol.); Sir John Soane's (Art and Antiquarian); Victoria and Albert, S. Kensington (Archit. and Sculpture, etc.).

**LABORATORIES AND INSTITUTES.** See pp. 155-163 below and under the several Colleges.

**FACULTIES.** 1. Theology. 2. Arts. 3. Laws. 4. Music. 5. Medicine. 6. Science. 7. Engineering. 8. Economics and Political Science. Deans: 1. Rev. Prof. H. M. Relton (King's Coll.). 2. Prof. C. J. Sisson (Univ. Coll.). 3. Prof. H. F. Jolowicz (Univ. Coll.). 4. Mr. E. S. Roper (Trinity Coll. of Music). 5. Mr. W. Girling Ball (St. Bart's Hosp.). 6. Prof. J. C. Philip (Imp. Coll.). 7. Prof. L. Bairstow (Imp. Coll.—R.C.S.). 8. Prof. Ll. Rodwell Jones (Lond. Sch. of Econ.).

**COMMITTEES OF THE SENATE.** The five standing Committees are—The Academic Council, the Council for External Students, the Collegiate Council, the University Extension and Tutorial Classes Council and the Matricn. and School Examinations Council. There are about 30 other Committees, besides the 50 Boards of Studies.

**TERMS** for Univ. and Inter-collegiate courses, 1937-38: 7 Oct.-16 Dec.; 11 Jan.-22 March; 26 April-28 June.

**DEGREES.** B.D., D.D.; B.A., M.A., D.Lit.; LL.B., LL.M., LL.D.; B.Mus., D.Mus.; M.B., B.S., M.D., M.S.; B.D.S.; B.Pharm.; B.Sc., M.Sc., D.Sc.; B.Com., M.Com.; Ph.D. (in Faculties of Theol., Arts, Laws, Music, Medicine (non-clinical subjects), Science, Engin., and Econ.).

The B.Sc. and D.Sc. are granted in the Faculties of Science (including Agric., Hortic., Vet. Sc., and, for Internal students, Household and Social Science—B.Sc. only), Engineering, and Economics (including for External students, Estate Management); the M.Sc. in Science (including Agric., Hortic., Vet. Sc., and, for Internal students, Household and Social Science), Engineering, and Economics (including for External students, Estate Management).



## ADMISSION. See Appendix I.

EXTERNAL students preparing for the Bachelorship undergo Intermediate and Final examns. at intervals prescribed in the Regns., and approximating (except in Med., Dental Surgery, and Vet. Sc.) to 3 yrs. in all. All External students (except, for the present, those overseas) are required to register for each examn., and all must previously have matriculated. Copies of all Regns. may be obtained gratis and post free from the External Registrar.

An External student who has been absent through illness from part of the Final examn. for a First Degree may apply to the Univ. for an Aegrotat Degree.

EXTERNAL EXAMINATIONS IN THE OVERSEAS DOMINIONS. Certain of the examns. of the Univ. for External students are held not only in London and at Provincial centres within Great Britain, but also in certain of the overseas Dominions of the Empire. In India, only the examns. in the Faculty of Theol. are held for civilians; but other examns. may be held for military personnel. The Matric. examn. and the examns. in Theol., in Arts, in Laws, and in Economics have been held at about 150 overseas centres. The Univ. Examns. in Science have also been held under special arrangements at 16 overseas centres, including Ceylon, the Government of which colony now awards annually scholarships of a total value of £2400 per annum upon the results of the Univ. Final examns. in Arts and in Science.

AN INTERNAL student before being allowed to enter as such for any examn. must, unless specially exempted, have attended Instruction courses in all the subjects thereof. For a first degree in any Faculty he must have completed an Approved Course of Study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. A minimum number of hours of attendance is as a rule prescribed for each course, and a reduction is allowed in the case of an evening student who is certified by an employer to be engaged in his service for not less than 25 hours a week. The Intern. course generally extends over 1 yr. As a general rule, Hons. may be taken at the Final examns. A course of study extending over not more than 1 yr. taken in another Univ. approved for the purpose subsequently to a student's passing the Intern. may be accepted subject to regns. in lieu of a course taken in this Univ.

An Internal student who has been absent through illness from part of the Final examn. for a First Degree may apply to the Univ. for an Aegrotat Degree.

Any person who has passed the Intern. examn. as an *External* student may be allowed to take the Final examn. for the first degree after having attended for 2 yrs. as an Internal student an approved course of study for it, but the degree is not conferred till after a further yr.'s course of approved study.

ARTS. In the Intern. examn. 4 subjects must be taken including 2 langs., of which one must be Latin with Rom. Hist., or Greek with Greek Hist. Natives of Asia or Africa may apply for permission to substitute for Latin or Greek—Classical Arabic, Classical Persian, Sanskrit, Pali, Classical Hebrew or Classical Chinese. In the Final examn. for the B.A. (General) Degree 3 subjects must be taken. The B.A. Honours Degree may be taken in any of the following branches: Archæol., Chinese, Classics, Greek, Latin, Hebrew and Aramaic (including Syriac), Hist., Geog., Maths., Philos., Psychol., English, French, German, Italian, Portuguese, Spanish, Slavonic Studies, Indo-Aryan, Arabic, Persian, Japanese, also Celtic for External students, and, for Internal students, Dutch, Scandinavian Langs., Anthropol., Sociol., Hist. of Art.

The B.A. course in Archit. for Internal students extends over 5 yrs., but

graduates of approved Univs. may be exempted from such part of the earlier yrs.' courses of study and examns. as the Senate may determine.

The M.A. is conferred in Archæol., Class. Hist., Hist. of Art, Maths., Mediæval and Mod. Langs., Oriental Langs., Philos., Educn., Geog., and, for Internal students only, in Anthropol., Comp. Philol., Modern Greek, Psychol., Slavonic Studies, and Sociology. Internal students are required (except in Maths.) to submit a thesis. In some cases candidates must have taken Hons. at the B.A. examn. External students may take the M.A. examn. 2 yrs. after graduation in Arts. Candidates may only take 1 branch or section at a time. In most there is a *viva-voce* examn.

The D.Lit. is open to M.A.'s and Ph.D.'s only, and is conferred for original work.

*Diplomas.* Teacher's, 1 yr. post-graduate; Journalism, 2 yrs., graduates, 1 yr. (also for External students); Librarianship, 2 yrs. for day students, 3-5 yrs. for evening students; Fine Art, 3 yrs. Academic Diplomas in Town Planning and Civic Archit. or Civic Engin., 2 evenings a week for 2 terms or 1 day a week for 3 terms; Hist. of Art, 1 yr. post-graduate; Geography, 2 yrs. (also for External students); Archæol. 2 yrs. post-graduate. Academic Post-graduate Dips. in Comparative Philol., Military Studies, Psychol. and Anthropol. 2 yrs. For Diplomas in the Humanities v. University Extension, *infra*.

**SCIENCE.** For the Interm. examn. Pure or Applied Maths. or Physics must be taken with 3 other subjects. For Final (General) examn. any 3 of the following may be selected: Pure Maths., App. Maths., Astron., Physics, Chem., Geol., Bot., Zool., Physiol., Psych., Anthropol., Milit. Studies, Geog., Human Anat. and Morph., and Logic and Method (Ext. students), Statistics (Int. students). For B.Sc. (Special) examn. a student selects 1 principal and (except in case of Human Anat. and Morphol. or Maths.) 1 subsidiary subject. Honours may be awarded at both B.Sc. (General) and B.Sc. (Special) examn. For the M.Sc. for Internal students a thesis is required except in Maths.

For the Degree in Agric. the Interm. examn. includes Chem., Bot., Zool., and one alternative subject; the Final is in 2 parts, Pt. I. including Sciences in relation to Agriculture and Pt. II. Professional subjects. In Horticulture the subjects for the Interm. are Chem., Bot., Zool., Geol. or Applied Physics, and Garden Operations; for the Final, Pt. I. Principles of Hortic., Pt. II. Practice of Hortic. For the Degree in Vet. Sc. there are 4 examns. to be taken in their proper order. Bachelors of Science (Agric. or Vet. Sc.) are held to be eligible for the ordinary D.Sc. For the Degree in Household and Social Science there are 3 examns.: 1st Interm. (Phys., Inorg. Chem., Biol., and Social and Econ. Hist.); 2nd (Chem.—Org. and Phys., Gen. and Econ. Biol., Principles of Econ.); and Final (App. Chem., Physiol. and Bio-Chem., Hygiene and Bacteriol., and Household Work).

*Diplomas.* Academic Post-graduate Dip. in Bacteriology, 1 yr.; Academic Dip. in Biology, 1 yr. (also for External students).

**THEOLOGY.** The Interm. course is in Elementary Hebrew, New Testament Greek, either Classical Greek or Latin, Ancient Hist., and Psych. and Ethics; the Final in Old Test., New Test., Bibl. and Hist. Theol., Church Hist., Philos. Introdn. to Theol., and a selected subject. The Examn. in Theol.—Advanced Subjects, is open to those who have obtained Honours at the B.D. examn. or who have obtained a Pass at the B.D. examn. and have passed a further qualifying examn. Any one of the following subjects may be offered:—Hebrew and Aramaic, including Syriac; Greek New Test. and Apocrypha; Church Hist.; Biblical and Historical Theol.; the Study of Religion.

Candidates for the D.D. Degree must have obtained the B.D. Degree and have passed the Examn. in Theol.—Advanced Subjects, and must submit original published work.

*Diplomas.* Academic Dip. in Theol., 2 yrs. (also for External students).

**LAW.** The subjects of the Intern. course are Rom. Law, Engl. Const. Law, Engl. Legal System, and Crim. Law and Crim. Procedure, *or* Indian Penal Code and Crim. Procedure. For the LL.B. candidates must offer General Principles of English Law and Jurisprudence and Legal Theory and three other subjects selected from limited groups. Candidates for the LL.M. are examined in three selected subjects. Candidates for the LL.D. must hold the LL.M. or the Ph.D. degree in the Faculty of Laws.

**MEDICINE.** The course extends normally over 5½ yrs. In the first yr. courses in Inorg. Chem., Phys., and Genl. Biol. in preparation for the 1st examn. for Med. degrees are taken. The 2nd and 3rd yrs. are devoted to Org. Chem. (the only subject at Pt. I. of the 2nd examn.), Hum. Anat. and Embryol., Physiol., Pharmacol. Pt. II. of the 2nd examn. is normally taken 18 mos. after passing the 1st. The Final course for the M.B., B.S. degrees falls into 2 groups as follows: Group I.—Med., Path., For. Med. and Hyg.; Group II.—Surg., and Obstetrics and Gynæcology. Examns. in the groups may be taken separately or together, but degrees are not conferred until candidates have passed in both groups.

Institutions outside the U.K. and Irish Free State, certificates from which for the complete course of Med. educn., including Clin. Med. and Surg. preparatory to the M.B., B.S. degrees for External students, are accepted by the Univ. of London: Univs. of Dalhousie, McGill, Adel. (with Infirmary), Melb. (with Melb. and Alfred Hospls.), Syd. (with Infirmary and Prince Alfred Hospl.), N.Z. (with Dunedin Hospl.); following Indian Med. Colleges—Grant (Bombay), Bengal (Calcutta), Lahore, Madras; Med. Coll., Colombo; Univ. of Malta; Sch. of Med., Cairo.

The M.D. may be taken in any of the following: Med., Path., Psych. Med., Midw. and Dis. of Women, Hygiene, Trop. Med.

The M.S. may be taken in Surg., Dent. Surg., Ophth., or Laryn., Ot., and Rhin.

For the M.D. or M.S. a thesis or published work may be submitted.

The course for the B.D.S. extends normally over 5 yrs.—there are 4 examns. The subjects of the Final examn. are Med., Surg., Pharm. and Mat. Med., Pathol. and Bacteriol., Dental Surg. and Orthodontics.

**B.Pharm.** The Intern. subjects are Bot., Chem., Physics, and Zool.; Final subjects are Bot., Chem., Pharmacognosy, and Pharmacy.

*Diplomas.* Academic Post-graduate Diplomas in Clinical Path. (also for External students), Medical Radiol., Public Health (also for External students) 1 yr.; in Dietetics, 2 terms and 30 weeks' practical work. For Post-graduate Diploma in Psychological Medicine and Diploma in Nursing, v. University Extension *infra*.

**MUSIC.** The subjects for the Intern. examn. are Harmony and Counterpoint, Form and Analysis, and Hist. of Mus. For the B.Mus. examn.: Harmony and Compn., Counterpoint and Canon, Fugue, Hist. of Music, Musical Analysis, Musical Exercise. Candidates for the B.Mus. must submit a musical exercise. For the D.Mus. there is a written examn. and a musical exercise.

**ENGINEERING.** Intern. examn. subjects: Pure Maths. and Applied Maths., Heat, Elec. and Magn., Engin. Drawing, and either Sound and Optics or Chem. or Geol. In the Final examn. in *Engin.* not less than 5

subjects are taken, a wide choice being allowed; in *Metall.* 6. In *Mining* the Final examn. is divided into 2 parts, with 5 subjects in each part. For an Honours degree in Engin. or Metall. at least 1 extra subject must be taken at the Final examn. and a higher standard reached in all the subjects taken. In Chem. Eng. the Final examn. is divided into 2 parts and candidates must pass Pt. I before they may enter for Pt. II.

**ECONOMICS.** The Interm. examn. for B.Sc. (Econ.) is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., Maths. or Logic or French or German. Pt. II.—English Econ. Hist., British Constitution. For the Final—Econ., two alternative subjects, an essay, translation from two languages, and a selected subject.

For the B.Com. the Interm. examn. is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., a modern foreign lang. Pt. II.—English Econ. Hist., Elem. Statistical Method and Accounting. The subjects of the B.Com. examn. are Economics, Elements of Comml. Law, a foreign language and a selected group of subjects.

For the Degree in Estate Management there are 2 examns., Interm. and Final. Interm.: Pt. I.—Surveying, Econ., and Agric. or Town Planning; Pt. II.—Accounting and Land Law. (Pts. I. and II. may be taken separately.) Final: Pt. I.—Land and Buildings Valuation, Taxation and Tithe, Land Law; Pt. II.—Building Constrn., and *either* A (Agric., Forestry, Agric. Law) *or* B (Town Planning, Urban Pub. Sanitation, Munic. and Local Govt. Law). (Pts. I. and II. may be taken separately.)

*Diplomas.* Academic Dip. in Public Administration, 2 yrs. (also for External Students); Academic Postgraduate Dip. in Sociology and Social Administration, 2 yrs.' course, at least 150 hours in each.

**MILITARY EDUCATION.** See Appendix IV. 1. Military Studies is one of the optional subjects for the Interm. and Final B.A. and B.Sc. (General) examns. An Academic Dip. in Military Studies is awarded. All indoor instruction, lectures, etc., for this Diploma are held at King's Coll. from 5.30 to 7 P.M. on two evenings a week during term time.

**AIR SQUADRON.** The Univ. of London Air Squadron was founded in 1935 by the Air Ministry with the assistance of the Univ. Authorities. Its main object is to promote a serious interest in flying and its allied subjects. It does not form part of any Air Force either regular or non-regular and is intended to be civilian in character. It possesses a ground training centre in London at the Imperial College—City and Guilds College, and has allotted to it a flight of aeroplanes stationed at Northolt Aerodrome. Applications for membership should be addressed to the Chief Instructor, U. of L. Air Squadron, Exhibition Rd., London, S.W.7.

**POST-GRADUATE STUDY AND RESEARCH.** In most of the Colleges and Schools of the Univ. special arrangements are made for Research students, and the facilities offered are not restricted to Internal graduates of the Univ. External graduates and graduates of, and persons who have passed the degree examns. of, other approved Univs. are allowed, under certain conditions, to enter as Internal students for the degree of Bachelor or of Ph.D. in the several Faculties), and for the degree of M.A., LL.M., or M.Sc. Application for registration may be submitted with evidence of graduation, etc., through the authorities of the College, School, or Institution at which the applicant proposes to study, and supported by their certificate of his fitness to undertake a course of study or research with a view to the proposed degree, and that they are

willing to supervise his work. An Overseas student may himself submit an application on the prescribed form, and the Univ. will, if so requested, advise as to the selection of the College, School, or Institution at which, and Teacher under whom, he should study. Application for such advice should be addressed to the Academic Registrar. Overseas students should apply for registration before coming to London, and their applications should reach the Univ. by May 1, or, if from Australia or New Zealand, March 1, to enable them, should their applications be successful, to enter upon their course of study in Oct., *i.e.* at the beginning of the session. Students whose applications are approved are required to pursue a course extending over at least 2 yrs. (*v. infra*—Publications).

An Internal student who is a candidate for the Ph.D. degree must have graduated in the Univ. in the faculty of Theology, Arts, Laws, Music, Medicine, Science, Engineering, or Economics, or have been registered as a candidate for the degree after passing approved examns. for a degree in another Univ. An Internal student is further required to pursue a course of study of not less than two years' full-time, or four years' part-time, training in research and research methods. Any graduate of the Univ. may become a candidate for the Ph.D. degree in his first degree Faculty as an External student on receiving the approval of the Council for External students.

FEES. Matricn.—2½ gs.; Examn. and Graduation—12 gs. (Med., 29 gs.) for first Degree. Other Degree fees, 10 to 20 gs. Tuition, see the sections relating to the several colleges.

STUDENTSHIPS AND SCHOLARSHIPS. Studentships are awarded by the Senate in aid of advanced work or research. These include one of £50 p.a. for 1 or 2 yrs., open to students of Univ. Coll. in Maths.; one of £100 in Physiology, offered biennially; £100 and £140 in Arts; £100 in Econ.; £200 for the man or woman who, being resident in London and a graduate of the Univ., has done most in the preceding 5 yrs. to advance Medical Art or Science; £200 for a graduate of a British Univ. for the promotion of postgraduate research; 2 Univ. *Travelling Studentships* of £275 each, and 9 Univ. Studentships of £150 each, open to Internal and External graduates in all faculties; *Duveen Travelling Studentship* of £450 for research in Oto-Rhino-Laryngology. Three Scholarships of £50 each for 1 yr. are awarded annually for proficiency in Oriental Langs. The Scholarships Pamphlet, obtainable post free on application to the Univ., gives details of many others.

The *Sir Ernest Cassel Travelling Scholarships* (4) of £200 to £300 each, open to British students who pass the B.Com. Exam., and propose to pursue study of Commerce abroad.

For Research grants, etc., open to grads. of other Univs., *see* App. II.

ADVISORY SERVICE FOR EXTERNAL STUDENTS. Any External Student who is duly registered for an external examn. and experiences any difficulty in connexion with the appropriate studies may apply to the External Registrar for guidance. Such guidance may take the form of detailed schemes of study or personal discussion with an Advisor. For preliminary consideration there is no fee, but for detailed study scheme a fee of 1 to 5 guineas is charged.

THE COMMERCE DEGREE BUREAU exists to help in their studies External (especially extra-London) students proposing to take the Commerce Degree examns., to assist in the employment of Commerce Degree students and graduates at home and abroad, to provide a reference and lending library for students, and generally to promote the value and usefulness of the Commerce degree. The Bureau is administered by a Board of Governors. Offices were opened in 1922 in Russell Square and have now been transferred to the new

building. There is a Bureau Educational Advisory Staff (Chief Advisor: Prof. A. J. Sargent, M.A.). Prospectus and enquiry forms obtainable on application to the Secretary, H. J. Crawford, B.A.

The UNIVERSITY APPOINTMENTS BOARD is closely associated with the Commerce Degree Bureau and their offices adjoin. Secretary, H. J. Crawford, B.A.; Assistant Secretary for Women's Appointments, Miss E. A. Rand, B.Sc.

**RESIDENCE.** Hostels recognized by the Senate: Connaught Hall of Residence, 16-20 Torrington Square, W.C.1, for 55 men students; Univ. Coll. Hall, Ealing, for 66 men students; College Hall, Malet Street, W.C.1, for 170 women students; King's Coll. Theological Hostel, 71 Vincent Square, S.W.1, for 75 men students; The Platanes, Denmark Hill, S.E.5, for 75 men students from King's Coll. and its Med. School.

Residence is also provided at or in connexion with the S.E. Agric. Coll., Wye, Bart's, Guy's and Middlesex Hospl. Med. Schools, the Theol. Colls. at Hampstead and Highbury, and the Women's Colleges. London House, 1-8 Caroline Place, Mecklenburgh Sq., W.C.1, provides accommodation for 83 Dominion and British men students.

**LODGINGS BUREAU**, 42 Torrington Square, W.C.1. Enquiries to be addressed to the Lodgings Officer.

A UNION SOCIETY on the lines of those of Oxford and Cambridge was founded in March 1921. Address—University Union, 42 Torrington Square, W.C.1. The University Athletic Ground is at Motpur Park, near Wimbledon.

**UNIVERSITY EXTENSION.** The work of the University Extension and Tutorial Classes Council may be considered to fall under the following heads: (a) Univ. Extension Lectures and Tutorial Classes; (b) Holiday Courses for Foreigners; (c) Examn. for the Certif. of Proficiency in Religious Knowledge; (d) Examns. for Certificate of Proficiency in English, and for Certifs. of Proficiency in Danish, French, German, Italian, Norwegian, Russian, Spanish, and Swedish; (e) Examn. for Certif. of Proficiency in Diction and Drama; (f) Examns. for Diplomas in Hist., Lit., Economics and Social Sc., Hist. of Art, the Literary, Historical and Comparative Study of the Bible; (g) Examn. for Postgrad. Diploma in Psychological Med.; (h) Examn. for Diploma in Dramatic Art; (i) Examn. for Diploma in Nursing; (j) Examn. for Diploma in Theory and Practice of Phys. Educn.; (k) Examn. for Diploma in Theology.

(a) *Univ. Extension Lectures* have been carried on by the Univ. since 1902 (prior to that, 1876-1902, by the London Society for the Extension of Univ. Teaching). Courses are held, at about 50 centres, on Hist., Lit., Econ. and Social Sc., Study of the Bible, Philos., Psychol., Painting, Architecture, and Nat. Sc. A class is held in connexion with each lecture, and students are encouraged to do regular written work for the lectr. An examn. for certifs. may be held at the end of each Sessional (24 or 25 lectures) or Terminal (10 or 12 lectures) course. A few short courses (5 or 6 lectures) of a *pioneer* or illustrative kind are arranged; in connexion with these there is no examn. Continuous study over several years is encouraged by the *Diplomas in the Humanities* (Hist., Lit., Econ. and Social Science, Hist. of Art, the Literary, Historical and Comparative Study of the Bible), awarded, under the Seal of the Univ., to students who carry on an approved co-ordinated course of study usually covering 4 yrs., and pass the required examns. (Diplomas in Hist., Lit., and Econ. and Soc. Sci. are also awarded on the result of One Year Full-time study; Diplomas in Econ. and Soc. Sci., and Hist. of Art on the result of 2 yrs. part-time study.)

The *Tutorial Classes for Working-people* extend over 3 consecutive years, and membership is usually limited to about 24 students, who undertake to attend regularly and to do regular written work for the tutor. Certifs. are not awarded.

(b) *A Holiday Course in English for Overseas Students* is held annually in London; (1938—July 15—Aug. 11). Special stress is laid upon Phonetic teaching. The course is designed to widen the students' knowledge not only of the Engl. Lang., but of English customs, institns., and art, by means of lectures, classes, excursions, etc. The total number of students admitted to the course is limited to about 300, and the number in each class to 8. During the 30 years 1904-1914 and 1919-1937 the course was attended by 7655 students from 54 countries.

(c) The *Examination for the Certificate of Proficiency in Religious Knowledge* is held once a year in June. It may be held at certain of the Provincial centres at which the June Matricn. examn. is appointed to be held, as well as in London.

(d) *Examinations for Certificate of Proficiency in English* (i) for foreigners, in Aug. and Dec., (ii) for English-born, in Aug. They are intended to provide evidence, which may not be guaranteed by a teacher's other certificates, of such a practical working knowledge of the English language, written and spoken, and of such acquaintance with Phonetics, as may be of special value for teaching English in foreign countries (Scheme A), or to foreign students (Scheme B).

(e) *Examinations for Certificates of Proficiency in* (i) *French*, (ii) *German*, (iii) *Italian*, (iv) *Russian*, (v) *Spanish*, (vi) *Danish*, (vii) *Norwegian*, and (viii) *Swedish* are held—(ii) (iv) (vi) (vii) and (viii) in June, and (i) (iii) and (v) in July. They are intended primarily for teachers who are not specialists in, but who require a Certif. testifying to their practical working knowledge of, the language, both spoken and written.

(f) The *Examination for the Certificate of Proficiency in Diction and Drama* is held once a year, in July, and is open to Registered Teachers, to Teachers on the Provisional and Associate Registers, and to others specially approved, who have taken a one-yr. course at Training Schools or Institutions approved for the third-yr. course for the Diploma in Dramatic Art.

(g) The *Examinations for the Diplomas in History*—General Hist. or Modern Hist.; *Literature*—English Lang. and Lit. or General Lit.; *Economics and Social Science*; *History of Art*; and the *Literary, Historical and Comparative Study of the Bible*—are held once a year for students who have followed a recognized course of study for 4 yrs. as part-time students, or in some cases for a shorter period.

(h) The *Examn. for the Postgraduate Diploma in Psychological Medicine* is held twice a year, in March and Apr. and in Oct. and Nov., and is open to candidates whose names are in the Medical Register. There are two forms of this Dip., for those desiring to specialize (i) in Mental diseases (Psychiatry), and (ii) in Mental Deficiency.

(i) The *Examn. for the Diploma in Dramatic Art* is held once a year, in July, and is open to students whose general education satisfies the Council and who have studied at least 2 yrs., after attaining the age of 17 yrs., at Training Schools or Institutions where courses have been approved.

(j) The *Examn. for the Diploma in Nursing* is held once a year in October and November, and is open to Registered Nurses (or Nurses eligible to sit for the prescribed examn. for registration) whose general education satisfies the

Council, subject to certain specified conditions with regard to Part B of the Examn.

(k) *Examns. for the Diploma in the Theory and Practice of Physical Education* are held—Part I. twice a yr., in June and Dec., Part II. once a yr., in May, open to students who, after completing their 18th yr., have studied at least 2 yrs. before Part I. and 3 yrs. before Part II. at Physical Training Colleges whose courses have been approved.

(l) *Examn. for the Diploma in Theology* is held once a year, in July, and is open to students not less than 19 yrs. of age who have taken 2 sessions of full-time study or 3 sessions of part-time study at a Theological College recognized for the Diploma.

[Further information and copies of the Regns. may be obtained from the University Extension Registrar, University of London, W.C. 1.]

INSPECTION AND EXAMINATION OF SCHOOLS. A close relationship between examination and inspection has been carefully and continuously developed by the Univ. The County Councils of Middlesex and Surrey have placed their Secondary Schools to the number of 80 under the Univ. for regular inspection and for the holding of the School examns., the local authority in each case making a special financial arrangement with the Univ.

*Inspection* may include either a general inspection of the whole school or a special inspection of certain subjects or groups of subjects. It may be so combined with the Certificate examns. that these form an integral part of it. It may also include an examn. carried on by the Inspectors and the Staff of the school in co-operation. This system of combined inspection and examn. is known as Examination Inspection, and is capable of considerable variation to meet the requirements of any particular school.

The *Examinations for School Certificates* are held only in Schools inspected by the Univ. or under other approved inspection. See App. I.

The *Higher and General School Examinations* are recognized by the Board of Education as "Second" and "First" examns. respectively (v. App. I.), and the Certifs. A. and B. awarded to candidates attending schools recognized by it as efficient Secondary Schools are attested by it.

In the case of each of the School examns. an Inspector visits the school for the purpose of conducting an oral examn. in such Mod. Langs. as are taken. Practical examns. in Science are optional, except in the case of the Higher School examn., in which they form an essential part of the examn.

PUBLICATIONS. The following are obtainable from Eyre & Spottiswoode, Ltd., 6 Great New Street, London, E.C.4 :

*The Calendar*, pubd. in Sept., price 6s. net, postage 6d. *Regns. and Courses for Internal Students* (the "Red Book"), pubd. in Sept., 2s. 6d., postage 6d. The Courses are pubd. separately for the several Faculties. The *Regulations for External Students* (the "Blue Book"), pubd. in Sept., 1s. 6d. net, postage 6d. *London Univ. Gazette*, pubd. at average intervals of 4 weeks; the Examn. Lists are pubd. in Supplts.; annual subs., including postage, 5s.; single no., 8d. *Examn. Papers*, published as soon as possible after the several Examns.; prices vary from 10d. to 2s. 11d. *Libraries of London: a Guide to Students*, by R. A. Rye, Goldsmiths' Librarian, 3rd edition, 10s. *Historical Record of the Univ.*, Second Issue, 1836-1926, contains (a) a Hist. of the Univ.; (b) former Fellows; (c) Donations and Trusts; (d) Graduates; (e) persons to whom prizes, etc., have been awarded; 5s. net., postage 6d.

*Regulations*. The following may be obtained on application to the Univ.: Regns. for Matricn.; Regns. for Int. and for Ext. Students (pubd. separately) for Degrees in Arts, Science, Agric., etc.; for the various Diplomas and



Certificates in special subjects; for Ph.D. Degree; Scholarships pamphlet; pamphlet of *General Information* for Internal Students. Applications for any of these should be addressed to the Principal.

*O.T.C. Handbook* obtainable from the Secy., London, W.C.1.

## THE YEAR 1936-37

In August 1936 the administrative offices were moved from South Kensington to the new University building. The Library is in process of being transferred (1937-38).

**BENEFACTIONS.** The Chancellor has presented a series of cartoons from *Vanity Fair*, representing former notabilities of the Univ. The Royal Institution has given a letter written in 1859 by Michael Faraday to the Rev. John Barlow and containing references to the institution of Science Degrees in the Univ. Lord Macmillan, Mr. Eason, and Sir Robert Witt have given an interesting portrait of Lord Brougham, of whom the poet Thomas Campbell wrote in *The Times* of 9 February 1825, urging the foundation of a University of London, and who introduced in Parliament a measure to provide for University education in London. The late Mrs. Wharrie, anonymous donor of £10,000 in 1935 for the repair and upkeep of St. John's Lodge as a home for the Inst. of Archæol., two further donations, each of £2500, for the same purpose. The Inst. also received help from Mr. A. L. Reckitt. Mrs. Weldon (widow of Prof. Weldon, formerly Jodrell Prof. of Zool. at University Coll.) bequeathed her residuary estate for a Chair of Biometry, preferably at University Coll. Miss A. B. Marshall left her residuary estate for the "advancement of surgery" in the name of her father, Dr. John Marshall, F.R.S. The Hungarian Government are providing £350 p.a. for 4 yrs. for a Lectureship in Hungarian Lang. and Lit. at the School of Slavonic and East European Studies. Two Prizes (books), founded in memory of Professors of the Univ. by means of an endowment raised by Memorial Fund Committees, viz. a Robert Priebisch Prize in German and an Edmund Gardner Prize in Italian.

Univ. Library: Mr. Harry Price deposited on permanent loan his Library of Magical Literature (over 14,000 vols., covering four centuries) and made provision for its upkeep. The Univ. of Monte Video, nearly 1000 books, distributed between the Univ. Library and the Libraries of University Coll. and the Inst. of Historical Research. The Hydrographic Dept. of the Admiralty, 274 cancelled charts for the Map Dept., to be followed by copies of all charts on cancellation. The Central Bureau of the International 1:1,000,000 Map of the World, a set of the sheets of Gt. Britain pubd. by the Ordnance Survey. The Trustees of the British Museum, facsimiles of old maps issued by the Museum, including a complete set of Saxton's Maps of the Counties of England. Mr. Basil Long, Keeper of the Dept. of Paintings, Victoria and Albert Museum, bequest of any of his books up to 200 vols. to be chosen by a representative of the Univ.

**NEW BUILDINGS.** Accommodation for other institutions to be housed on the Bloomsbury site is in progress.

A few months after the transfer of the administrative offices to the new buildings ("The Senate House") an accident happened in the Tower, where work was still in progress, which resulted in the death of Sir Edwin Deller, Principal, on Nov. 30, 1936, and serious injury to another member of the staff.

**NEW POSTS.** At *Univ. Coll.*: Weldon Chair of Biometry. At *King's Coll.*: Readership in English Law. At *Imperial Coll.*—*City and Guilds Coll.*: Clothworkers' Readership in Applied Thermodynamics. At *London Hosp.*

*Med. Coll.* : Readership in Physiology. At *Lister Inst. of Preventive Med.* : Readership in Biochemistry.

UNIVERSITY EXTENSION. Number of Lecture Courses : Sessional (24 or 25 Lectures), 43 ; Terminal (10 or 12 Lectures), 35 ; Short (4 or more Lectures) 33. Terminal entries of Students for all Courses, 7280. Humanities Diploma Students, 468. Three Year Univ. Tutorial Classes, 69 ; Preparatory Classes, 1 ; Students, 1327.

The Holiday Course in English for Overseas Students was again very successful : there were 298 students, representing 31 nationalities.

VISITORS who lectured in the University : Prof. G. Florovsky of Paris (Theol.) ; Prof. H. Frankfort of Amsterdam (Archæol.) ; Dr. R. F. von Heine-Geldern of Vienna (Archæol.) ; Dr. Li Chi of Nanking (Chinese Archæol.) ; Dr. A. W. Pickard-Cambridge of Sheffield (Classics) ; Prof. B. Karlgren of Gothenburg (Comp. Philol.) ; Prof. B. Dickins of Leeds (English) ; Prof. H. Lichtenburger of Paris (German) ; Prof. A. Dopsch of Vienna (Hist.) ; Prof. J. Carcopino of Paris (Hist.) ; Prof. A. Moschetti of Padua (Hist. of Art) ; Air Vice-Marshal E. L. Gossage (Military Studies) ; Dr. Paul Wittek of Brussels (Oriental Langs.) ; Prof. V. Basch of Paris (Philos.) ; Prof. R. F. A. Hoernlé of Witwatersrand (Philos.) ; Prof. H. Focillon of Paris (Romance Langs.) ; Prof. M. Rostovtzeff of Yale (Slavonic Studies) ; Prof. C. Bouglé of Paris (Sociol.) ; Sir E. Tindal Atkinson (Laws) ; Prof. G. Le Bras of Paris (Laws) ; Prof. C. Szladits of Budapest (Laws) ; Prof. Martin Wolff of Berlin (Laws) ; Prof. Roscoe Pound of Harvard (Laws) ; Mr. G. D. Cunningham of Birmingham (Music) ; Prof. L. H. Weed of Johns Hopkins (Human Anat.) ; Prof. E. D. Telford of Manchester (Surg.) ; Prof. G. W. Corner of Rochester, U.S.A. (Med.) ; Prof. I. M. Heilbron of Manchester (Chem.) ; Prof. R. G. Stapledon of Wales (Agric. Bot.) ; Dr. W. A. J. M. van W. van der Gracht of Heerlen (Geol.) ; Prof. H. H. Plaskett of Oxford (Maths.) ; Prof. H. Rein of Göttingen (Physiol.) ; Prof. H. Fredericq of Liège (Physiol.) ; Prof. K. von Frisch of Munich (Zool.) ; Prof. W. L. Bragg of Manchester (Metallurgy) ; Mr. P. Rabone (Mining) ; Prof. J. B. Condliffe (Econ.) ; Prof. D. H. Macgregor of Oxford (Econ.) ; Prof. E. F. Heckscher of Stockholm (Econ.) ; Prof. L. H. Jenks of Wellesley (Econ. Hist.) ; Prof. M. Leroy (Political Sci.) ; Sir Claud Schuster (Political Sci.) ; Sir Charles R. Peers (Creighton Lectr.) ; Prof. W. Bulloch (Heath Clark Lectures) ; Mr. Walter Howarth (Semon Lecture) ; Col. Theodore Roosevelt (Watson Chair Foundation Lectures).

DEATH. Sir Edwin Deller, Principal of the University, who died on Nov. 30, 1936, entered the service of the Univ. in 1912. He was appointed Academic Registrar in 1921 and Principal in 1929.

HONORARY DEGREE. *D.Sc.*—Prof. Niels Erik Nörlund.

STUDENTS. Total admissions in the year 1936 were 13,462, of whom 3754 were exempted from the ordinary matric. examn. : 709 as graduates of other Univs., 2712 as holders of approved certificates, and 333 after passing the Special Univ. Entrance examn. Of 5455 candidates for first degrees, 3074 were internal and 2381 external. The total number of internal students on the rolls was 13,613, while about 13,000 were registered as external.

Founded 1826

Telegrams : University College, London.

CHAIRMAN OF THE COLLEGE COMMITTEE—The Rt. Hon. THE VISCOUNT SANKEY OF MORETON, P.C., G.B.E., D.C.L. Ox., LL.D. Wales, Camb., and Bristol.

TREASURERS—A. DIGBY BESANT, B.A., Past Pres. I.A. ; The Rt. Hon.  
LORD LOCH, C.B., C.M.G., M.V.O., D.S.O.

PROVOST—SIR ALLEN MAWER, M.A., Litt.D. Camb., D.C.L. Durh., F.B.A.

SECRETARY—C. O. G. DOUIE.

LIBRARIAN—J. A. WILKS, M.A.

## Anatomy and Embryology

Hill, J. P., D.Sc. Edin., Sc.D. Dub.,  
F.R.S. (to 30.9.38)

F.R.S. (to 30.9.38)

(Embryol.) Prof.

Woollard, H. H., M.D. Melb.,  
D.Sc. (Anat.) Prof.

Fielding, Una, B.A., B.Sc., M.B.,  
Ch.M. Syd.

(Neurolog. Anat.) Reader.

..... (from I.10.38)

(Embryol.) Reader.

Gray, J. H., M.B., B.S. Adel.

Sr. Demr.

Young, M., M.D. Glas., D.Sc. Lectr.

Richardson, K. C., M.Sc. W. Aust.  
(Histol.) Lectr.

Ludford, R. J., D.Sc., Ph.D.

(Cytol.) Hon. Lectr.

Demrs. :

Flemming, C. W., M.A., B.M.,  
M.Ch. Ox., F.R.C.S.

Griffiths, W. F. Batty, B.Sc.

O'Connor, R. J., M.B., B.S. Adel.,  
D.T.M. Liv.

Pollitt, A., M.A., M.B., B.Ch.  
Dub., D.M.R.E. Camb.

Weddell, A. G. M., M.B., B.S.

Pritchard, J. J., B.A. Ox., B.Sc.  
Adel.

Hon. Research Associate :

Brandt, J. O. Walter, Dr. Med.  
Cologne.

3 Hon. Research Assts.

*Anthropology, Cultural* [Reader.  
Perry, W. J., M.A. Camb., D.Sc.

*Archæology*, v. also Egyptol.

Ashmole, Bernard, M.A., B.Litt.  
Ox. Yates Prof.

Wheeler, R. E. M., M.A., D.Lit.,  
F.S.A. (Brit. A.) Lectr.

Richards, F. J., M.A. Ox. (Indian  
A.) Hon. Lectr.

Codrington, K. de B., M.A. Camb.	Hon. Lectr.
(Indian Art)	Hon. Lectr.

- Architecture*, v. *infra* Bartlett  
School of Architecture
- Art (Fine Arts)*  
Schwabe, R. Slade Prof.  
Borenus, Tancred, Ph.D. Helsing.,  
D.Lit., F.S.A.  
(History of Art) Durning-  
Lawrence Prof.  
Bayes, W., A.R.W.S. Lectr.  
11 Assts.
- Astronomy*, v. Maths.
- Bio-Chemistry*, v. Physiol.
- Biometry*  
Haldane, J. B. S., M.A. Ox. and  
Camb., F.R.S., Chev. Lég.  
d'H. Weldon Prof.
- Botany*  
Hill, T. G., D.Sc., A.R.C.S.  
(Plant Physiol.) Prof. and  
Dir. of Labs.  
Salisbury, E. J., D.Sc., F.R.S.  
Quain Prof.  
Haas, P., Ph.D. Freib., D.Sc.  
(Plant Chem.) Reader.  
Cutting, E. M., M.A. Camb.  
Sr. Lectr.  
Russell-Wells, Barbara, B.Sc.,  
Ph.D. Lectr.  
Jane, F. W., B.Sc., Ph.D. Lectr.  
Wilson, K., M.Sc. Asst. Lectr.  
1 Quain Student.
- Celtic*  
Flower, R. E. W., B.A. Ox., D.Litt.  
Celt. N.U.I., Litt.D. Dub.,  
F.B.A. Hon. Lectr.
- Chemical Engineering*  
Watson, H. E., D.Sc., F.I.C.,  
M.I.Chem.E. Ramsay Prof.  
Mullen, J. P., M.Eng. Liv. Lectr.  
Donald, M. B., M.Sc. Mass. Inst.  
Technol., A.R.C.S. Lectr.
- Chemistry*  
Ingold, C. K., D.Sc., F.R.S.  
Prof. and Dir. of Labs.  
Sugden, S., D.Sc., A.R.C.S., A.I.C.,  
F.R.S. Prof.
- Collie, Emer. Prof. J. Norman,  
Ph.D. Würz., LL.D. Glas.,  
D.Sc. Liv. and Belf., F.R.S.  
Hon. Lectr.  
Brady, O. L., B.A. Cape, D.Sc.,  
F.I.C. (Org. C.) Reader.  
Terrey, H., B.Sc. Reader.  
Goodeve, C. F., M.Sc. Manitt.,  
D.Sc. Reader.  
Bailey, C. R., B.A., M.Sc.  
Sr. Lectr.  
Evans, H. J., B.Sc.  
(Med. Students) Sr. Lectr.  
Hon. Lectrs. :  
Goodbody, F. W., M.D. Dub.,  
M.R.C.P. (Medical)  
Freeth, F. A., O.B.E., Ph.D.  
Leiden, D.Sc. Liv., F.R.S.  
Lunt, R. W., Ph.D. Liv., M.Sc.  
(Eng.).  
Hon. Research Associate :  
Freundlich, H., Ph.D. Leipzig.  
Lectrs. :  
Day, J. N. E., M.Sc., Ph.D.,  
A.R.C.S.  
Gilbert, L. F., B.Sc.  
Le Fèvre, R. J. W., D.Sc., Ph.D.  
Walker, O. J., Ph.D. Edin.  
Wilson, C. L., B.Sc. Leeds, Ph.D.  
Guggenheim, E. A., M.A. Camb.  
Asst. Lectr.  
Hughes, E. D., M.Sc., Ph.D.  
Asst. Lectr.
- Classics*  
Smiley, M. T., M.A. Dub.  
(Greek) Prof.  
Butler, H. E., M.A. Ox.  
(Latin) Prof.  
Solomon, L., M.A. Ox. Sr. Lectr.  
Lockwood, J. F., M.A., Ph.D.  
(Gk.) Lectr.  
M'Lellan, R. D., B.A., Ph.D.  
(Latin) Lectr.  
Flower, Barbara, B.A. Ox.  
Asst. Lectr.  
Kells, J. H., B.A. Belf. and Camb.  
Asst. Lectr.

- Danish*, v. Scandinavian
- Dutch History and Institutions*  
Renier, G. J., Ph.D. Reader
- Dutch Lang. and Lit.* [Reader  
Weevers, Th., Lit.D. Leiden
- Economics*, v. Polit. Econ.
- Economic Geography*, v. Geog.
- Egyptology and Coptic*  
Glanville, S. R. K., M.A. Ox.,  
F.S.A Edwards Prof.  
1 Hon. Res. Asst.
- Petrie, Sir Flinders, D.C.L. Ox.,  
LL.D. Aberd., D.Sc., F.B.A.,  
F.R.S. Hon. Curator, Museum
- Embryology*, v. Anatomy
- Engineering*, v. *infra*
- English*  
Chambers, R. W., D.Litt. Durh.,  
Litt.D. Leeds, M.A., D.Lit.,  
F.B.A. Quain Prof.  
Sisson, C. J., M.A. Edin., D. ès L.  
Dijon, D.Lit.  
Lord Northcliffe Prof.  
Greg, W. W., Litt.D. Camb.,  
D.Litt. Ox., F.B.A.  
(Bibliogr.) Hon. Lectr.  
Batho, Edith C., M.A., D.Lit.  
Reader.  
Smith, A. H., Ph.D. Leeds, D.Lit.  
Reader.  
Blackman, Elsie, M.A. Sr. Lectr.  
Lectrs. :  
Hitchcock, Elsie V., Ph.D., D.Lit.  
Tillotson, G., M.A., B.Litt. Ox.  
Husbands, H. Winfred, M.A.  
Pattison, B., M.A. Durh., Ph.D.  
Camb. Asst. Lectr.  
1 Quain Student.
- Eugenics*, v. *infra*
- French*, v. also Hist.  
Brandin, L. M., M.A., Ph.D.  
Greifs. Fielden Prof.  
Jeaffreson, J. W., M.A. Sr. Lectr.
- Stéphan, E. M. Sr. Lectr.  
Schlumberger, Beatrice J., M.A. ,,  
Starke, Dora, M.A. Lectr.  
Tancock, L. W., B.A., Ph.D. Lectr.  
Niklaus, R. Ph.D., L. ès L. Lille  
Asst. Lectr.  
1 Asst.
- Geography*  
Fawcett, C. B., B.Litt. Ox., D.Sc.  
(Econ. and Regl. G.) Prof.  
Hart, C. A., M.Sc. (Eng.)  
(Surveying) Sr. Lectr.  
Buchanan, R. O., M.A. N.Z., B.Sc.  
(Econ.), Ph.D. Lectr.  
Dickinson, R.E., M.A. Leeds,  
Ph.D. Lectr.  
Cumberland, K. B., B.A.  
Asst. Lectr.
- Geography, Physical, Geology and Mineralogy*  
King, W. B. R., O.B.E., M.A.  
Sc D. Camb.  
Yates-Goldsmid Prof.  
Goodyear, Edith, B.Sc.  
Hon. Lectr.  
Chubb, L. J., M.Sc., Ph.D. Lectr.  
MacGregor, M., M.Sc., Ph.D.  
Lectr.  
Wilson, G., B.Sc. McG., M.Sc.  
Wisc., Ph.D. Asst. Lectr.
- German*  
Willoughby, L. A., Ph.D. Vienna,  
M.A., D.Lit. Prof.  
Perrett, W., Ph.D. Jena, B.A.  
Reader.  
Maurer, K. W., Dr. Phil. Tübingen  
Lectr.  
Walshe, M. O'C., M.A.  
Asst. Lectr.  
Hentschel, E. C., M.A.  
Asst. Lectr.
- Hebrew*, v. also Semitic  
Stein, S., Ph.D. Goldsmid Lectr.
- History*, v. also Art and Medicine  
Neale, J. E., M.A. Liv.  
(English H.) Astor Prof.

Davis, Eliza Jeffries, M.A., F.S.A.  
(London H.) Reader.

Cobban, A., M.A., Ph.D. Camb.  
(Mod. French H.) Reader.

Bellot, H. Hale, M.A. Ox. (Amer.  
H.) Commonwealth Fund  
Prof.

Baynes, Norman H., D.D. St.  
And., M.A. Ox., F.B.A.,  
F.S.A. (Byzantine H.) Prof.

Cary, M., M.A., D.Litt. Ox.  
(Ancient H.) Reader.

Valentin, V., Ph.D. Berlin.  
Sp. Lectr.

Renier, G. J., Ph.D.  
(also Dutch H.) Tutor,  
Evg. School of H.

Thomson, M. A., M.A., D.Phil. Ox.  
Lectr.

Humphreys, R. A., M.A., Ph.D.  
Camb. Lectr.

Le Patourel, J. H., M.A., D.Phil.  
Ox. Lectr.

Asst. Lectrs. :

Bindoff, S. T., M.A.

Gash, N., B.A., B.Litt. Ox.

Barlow, F., B.A., B.Litt., D.Phil.  
Ox.

### *History and Method of Science*

Wolf, A., M.A. Camb., D.Lit.  
(Logic and Scientific  
Method) Prof.

McKie, D., D.Sc., Ph.D. Lectr.  
1 Asst.

### *Italian*

Pellizzi, C., Dott. Legge Pisa,  
D.Lit. Prof.

Foligno, C., M.A. Ox., Dott. Lett.  
Milan. Barlow Lectr.

Bassani, A. M., Sc.D. Lectr.

Bigg-Wither, Elizabeth A., B.A.  
Asst. Lectr.  
[Tutor.]

### *Journalism*

Solomon, Lawrence, M.A. Ox.

*Law*, v. p. 218

*Librarianship* [Director.]

Cowley, J. D., M.A. Ox., F.L.A.

Wilks, J. A., M.A., F.L.A.  
Asst. Dir.

Lectrs. :

Esdaile, Arundell, M.A. Camb.,  
F.L.A. (Bibliography).

Sayers, W. C. Berwick, F.L.A.  
(Sp. Administration).

Headicar, B. M., F.L.A. (Gen.  
Administration).

Taylor, Margaret, M.A. Ox., F.L.A.  
(Cataloguing and Classifica-  
tion).

Ratcliff, S. C., M.A. Ox. (Palæog.  
and Archives).

### *Mathematics (Applied) and Mechanics*

..... Goldsmid Prof. and Dir.  
of Observatories.

Jessop, H. T., M.Sc.  
(Mechs.) Sr. Lectr.

Gregory, C. C. L., M.A. Camb.,  
F.R.A.S.

(Astronomy) Sen. Lectr.  
and Wilson Observer.

Stevenson, A. C., M.Sc. Lectr.

Wigglesworth, L. A., M.Sc.  
Asst. Lectr.

2 Assts.

### *Mathematics (Pure)* [Astor Prof.]

Jeffery, G. B., M.A., D.Sc., F.R.S.  
Wren, T. L., M.A. Camb.

(Geom.) Reader.

Bosanquet, L. S., M.A., D.Sc.,  
D.Phil. Ox. Reader.

Estermann, T., Dr. Nat. Sci.  
Hamburg, D.Sc. Lectr.

Rigby, Constance M., M.A. Ox.,  
Ph.D. Lectr.

Archbold, J. W., M.A. Camb.  
Lectr.

Kestelman, H., M.Sc. Lectr.  
3 Demrs.

### *Medicine, History of*

Singer, C., M.D., D.Litt., D.Sc.  
Ox., F.R.C.P. Prof.

2 Hon. Research Assts.

*Norwegian*, v. Scandinavian  
*Pharmacology*, v. Physiol.  
*Philology*  
 Braunscholtz, G. E. K., M.A. Camb.,  
 Ph.D. Berlin.  
 (Classical) Lectr.

*Philosophy*  
 Macmurray, J., M.A. Ox. and Glas.  
 (P. of Mind and Logic)  
 Grote Prof.  
 Keeling, S. V., B.A. Camb., D. ès  
 L. Montp., M.A. Reader.  
 Wind, E., Ph.D. Hamb.  
 Hon. Lectr.  
 Leontinoff, Feodora S., B.A.  
 Asst. Lectr.

*Phonetics*  
 Jones, Daniel, M.A. Camb., Dr.  
 Phil. Zür. Prof.  
 ..... Reader.  
 Perrett, W., B.A., Ph.D. Jena  
 (German) Reader.  
 Firth, J. R., M.A. Leeds.  
 Sr. Lectr.  
 Lloyd-James, A., B.A. Wales,  
 M.A. Camb. Hon. Lectr.  
 Coustenoble, Hélène Lectr.  
 Davies, Hyacinth M. Lectr.  
 Fry, D. B., B.A.  
 Lectr. and Superint. of Lab.  
 Scott, N. C., B.A., B.Sc. Lectr.  
 Evans, Eileen M., B.A.  
 Asst. Lectr.  
 3 Assts.

*Physics*  
 Andrade, E. N. da C., Ph.D. Heid.,  
 D.Sc., F.R.S.  
 Quain Prof. and Dir. of  
 Labs.  
 Wood, D. O., M.Sc., A.R.C.S.,  
 F.Inst.P.  
 Sr. Lectr. and Depy. Dir.  
 of Labs.  
 Gibbs, R. E., D.Sc. Reader.  
 Eumorfopoulos, N., B.Sc.  
 Hon. Research Asst.

Chalklin, F. C., B.Sc., Ph.D. Lectr.  
 Brown, G. B., M.Sc., Ph.D. Lectr.  
 Brown, R. C., B.Sc., Ph.D. Lectr.  
 Duncanson, W. E., M.Sc. Syd.,  
 Ph.D. Camb. Lectr.

Asst. Lectrs. :  
 Rymer, T. B., M.A. Camb., Ph.D.  
 Vick, F. A., M.Sc., Ph.D. Birm.

*Physiology, Pharmacology and  
 Biochemistry*  
 Evans, C. Lovatt, LL.D. Birm.,  
 D.Sc., F.R.C.P., F.R.S. (Physi-  
 siol.)

Jodrell Prof. and Dir. of  
 Labs.  
 ..... (Pharmacol.) Prof.  
 Drummond, J. C., D.Sc.

(Bio-Chem.) Prof.  
 Hill, A. V., O.B.E., M.A., Sc.D.  
 Camb., D.Sc. Ox. and Manc.,  
 LL.D. Edin., F.R.S. (Physiol.)  
 Foulerton Prof. (Roy.  
 Soc.) and Univ. Prof.  
 Lythgoe, R. J., M.A., M.D. Camb.,  
 D.Sc. (Sense Organs) Reader.  
 Ing, H. R., M.A., D.Phil. Ox.  
 (Pharmacol. Chem.) Reader.  
 Newton, W. H., M.D., M.Sc.  
 Manc. Reader.  
 Kerridge, Phyllis M. Tookey,  
 M.Sc., Ph.D. Lectr.  
 Stella, G., M.D. Padua Lectr.  
 Young, L., Ph.D. Lectr.  
 Smyth, D. H., M.Sc., M.B., B.Ch.,  
 B.A.O. Belf. Lectr.

Hon. Research Associates :  
 Duke-Elder, Sir Stewart, M.A.,  
 D.Sc., M.D. St. And., Ph.D.,  
 F.R.C.S.  
 Fish, E. W., D.Sc., M.D. Manc.,  
 L.D.S.  
 Bogue, J. Yule, Ph.D. Edin.,  
 M.R.C.V.S.  
 Kerly, Lily M., M.A. Camb.,  
 Ph.D. Asst. Lectr.  
 Demrs. :  
 Tansley, Katharine, Ph.D.

Moss, A. R., B.Sc.  
 Davson, H., B.Sc.  
 Lawton, J. H. T., Ph.D.  
 Schild, H. O., M.D. (Pharmacol.).  
 1 Sharpey Schol., 2 Hon. Res.  
 Assts., 1 Hon. Demr.

### *Political Economy*

Hall, N. F., M.A. Ox., A.M. (Econ.)  
 Princeton (to 31.3.38) Prof.  
 Rosenstein-Rodan, P. N., D.rer.  
 Pol., B.Comm. Vienna Lectr.  
 Gaitskell, H. T. N., B.A. Ox.  
 Lectr. and Tutor to  
 Higher Civ. Service  
 Students.  
 Balogh, T., D.rer Pol. Budapest.  
 Hon. Lectr.  
 Warriner, Doreen, B.A. Ox., Ph.D.  
 Asst. Lectr.  
 1 Hon. Res. Asst.

### *Psychology*

Burt, C., M.A., D.Sc. Ox. Prof.  
 Flugel, J. C., B.A. Ox., D.Sc.  
 Asst. Prof.  
 Philpott, S. J. F., D.Sc. Lectr.  
 Lythgoe, R. J., M.A., M.D. Camb.,  
 D.Sc. Lectr.  
 Hopkins, Pryns, Ph.D., M.A.  
 Hon. Lectr.  
 2 Research Assts.

### *Scandinavian Studies*

Mawer, Sir Allen Hon Director.  
 Helweg, J. H., cand. mag. Copen-  
 hagen (Danish)  
 Queen Alexandra Lectr.  
 Gröndahl, I. C., cand. mag. Oslo  
 (Norwegian) W. P. Ker Lectr.  
 Mesterton, E., fil. mag. Uppsala  
 (Swedish)  
 Crown Princess Louise  
 Lectr.

### *Semitic (North) Epigraphy*

Stein, S., Ph.D.  
 (Hebrew) Goldsmid Lectr.

### *Statistics*

Pearson, E. S., M.A. Camb., D.Sc.  
 Prof.

Neyman, J., Ph.D. Warsaw  
 Reader.  
 Elderton, Ethel M., D.Sc.  
 Hon. Res. Assoc.  
 Welch, B. L., B.A. Ox., Ph.D.  
 Lectr.  
 David, Florence N., B.Sc.  
 Asst. Lectr.

### *Surveying, v. infra, Engineering*

*Town Planning, v. infra* Bart-  
 lett School of Architecture

### *Zoology & Comparative Anatomy,* v. also Biometry

Watson, D. M. S., D.Sc. Manc.,  
 F.R.S. Jodrell Prof.  
 Fraser, Elizabeth, D.Sc. Reader.  
 Russell, E. S., O.B.E., M.A., D.Sc.  
 Glas. Hon. Lectr.  
 Wells, G. P., M.A. Camb. Lectr.  
 Howes, N. H., M.Sc. Lectr.  
 White, M. J. D., M.Sc. Lectr.  
 Pusey, H. K., M.A. Ox.  
 Asst. Lectr.

Carleton, Mary, Ph.D. Brist.  
 Asst. Lectr.  
 1 Res. Asst., 3 Hon. Res. Assts.,  
 1 Aquarium Asst.

### *Engineering*

#### *Chemical Engineering, v. supra*

Hill, G. T. R., M.Sc. (Eng.),  
 M.I.Mech.E., F.R.Ae.S.  
 Kennedy Prof. and Dir.  
 of Eng. Labs.  
 Collins, H. J., M.Sc. (Eng.) Birm.,  
 M.Inst.C.E., M.I.Mech.E.,  
 M.I.Struct.E. Chadwick Prof.  
 Lloyd-Evans, B. J., M.Sc.,  
 M.I.Mech.E. Asst. Prof.  
 Webb, A. E., B.Sc. (Eng.)  
 Sr. Lectr.  
 Hart, C. A., M.Sc. (Eng.)  
 (Surveying) Senr. Lectr.  
 Delafield, M. E., B.A., M.B., B.Ch.,  
 D.P.H. Camb. (Hygiene).  
 Spl. Lectr.

Capper, P. L., M.Sc. Lectr.  
 Watts, S. S., B.Sc. (Eng.) Lectr.



Cassie, W. F., M.Sc. III., Ph.D. St. And. Lectr.	Norton, H. W. Asst. Lectr.
Ballantyne, A. M., B.Sc., Ph.D. Glas. Asst. Lectr.	Karn, M. Noel, M.A. Research Asst.
1 Sr. Asst.	Prior, Aileen M., M.Sc. Hon. Res. Asst.

*Engineering, Electrical*

Kapp, R. O., B.Sc. Birm., M.I.E.E.  
Pender Prof. and Dir. of  
Elec. E. Labs.

Barlow, H. E. M., B.Sc., Ph.D.  
(Electro - Communica-  
tions). Senr. Lectr.

Bayliss, C. W., M.A. Camb.  
(Electrical Machinery)  
Lectr.

Alexander, W., B.Sc. Eng.  
Asst. Lectr.

*Eugenics (including Anthropol-  
ometry)* Galton Laboratory for  
National Eugenics

Fisher, R. A., M.A., Sc.D. Camb.,  
D.Sc. Harv., F.R.S.  
Galton Prof.

Bell, Julia, M.A. Dub., M.R.C.P.,  
M.R.C.S.

Hon. Galton Research Fellow.

Morant, G. M., D.Sc. Lectr.

Mather, K., B.Sc. Vict., Ph.D.  
Lectr.

Stevens, W. L., B.A. Camb., B.Sc.  
Lectr.

Taylor, G. L., M.D. Manc., Ph.D.  
Camb. Hon. Research Assoc.

**Bartlett School of Architecture**

Richardson, A. E., A.R.A., F.S.A.,  
F.R.I.B.A. Prof.

Abercrombie, P., M.A. Liv.,  
F.R.I.B.A.

(Town Planning) Prof.

Corfiato, H. O., S.A.D.G. Paris,  
F.R.I.B.A. (Design) Prof.

Wilson, H. Warren, A.R.C.A.  
(Decoration) Lectr.

Dawson, M. J., F.R.I.B.A. (Build-  
ing Constrn.) Lectr.

Stanley, L. S., M.A. Camb.,  
F.R.I.B.A. Lectr. & Tutor.

Ashworth, H. I., B.A. Manc.,  
A.R.I.B.A. Lectr.

Richardson, E. G., B.A., D.Sc.,  
Ph.D. (Acoustics)

Hon. Lectr.

Hyde, S., A.R.I.B.A. Senr. Asst.

White-Cooper, R. C., B.A.,  
A.R.I.B.A. (Decoration)

Asst.

Carr, F. H., A.R.I.B.A. (Town  
Planning) Studio Instr.

Harvey, J. D. M., B.A. (Town  
Planning) Studio Instr.

## GENERAL INFORMATION

Founded in 1826 and opened Oct. 1, 1828, under the name of "The University of London," the College was incorporated as "University College, London," by Royal Charter in 1836. On Jan. 1, 1907, it was incorporated in the University of London.

**LIBRARIES** (containing over 377,000 bound vols. and pamphlets): (1) General, including Barlow (Dante), Carnegie (American History and Institns.), Field (Fine Art), Robertson (German), Morris, Ricardo (Polit. Econ.), Rotton, Strong (Oriental), and Whitley Stokes (Celtic) collections, the Library of the Philological Society, and the Bentham MSS.; (2) Science, including Ramsay (Chem.), Grant (Zool.), and Graves (Maths.), collections, the Library of the Geologists' Assn., the books deposited by the London Mathematical Soc., the Hertfordshire Nat. Hist. Soc., and the Malacological Soc., and an exceptionally good collection of scientific journals; (3) Med. Sciences (Thane), including

Sharpey (Anat. and Physiol.) collection; (4) Special Arts Libraries for: Archit., Classical Archæol. (Yates), Classics and Anc. Hist., Egyptol. (Edwards), English, French, German, Geog., Hist., Italian, Jewish Hist. and Antiq. (Mocatta), Librarianship, Hist. of London, Philos. and Psychol., Phonetics, Scandinavian, incl. Viking Society Library and a general Advanced Arts Library; (5) Law Library, including Blackburn and Quain collections.

MUSEUMS. Anat., Archit., Bot., Egypt., Engin., Geol. and Mineral. Vulcanological (Johnston-Lavis Collection), Zool. Three Astron. OBSERVATORIES.

FACULTIES. Arts, Laws, Science, Engineering, Medical Sciences. Deans: Prof. S. R. K. Glanville, Prof. H. F. Jolowicz, Prof. E. J. Salisbury, Prof. G. T. R. Hill, Prof. C. Lovatt Evans.

TUTORS. Arts and Laws, L. Solomon (Senior Tutor); Science, D. O. Wood; Engineering, H. E. M. Barlow; Medicine, Prof. H. H. Woollard. Women Students, Edith Goodyear.

COURSES. Arts, Laws, Science, Eng., Medical Prelim. and Intermediate. Open to students of both sexes. The Arts Faculty includes Slade School of Fine Art, School of Librarianship and Bartlett School of Archit. The Engineering Faculty includes Depts. of Eng. (incl. Civil, Mech., Munic., Graphics, Surveying, Munic. Hyg.), Elec. Eng., and Chem. Eng. A Dipl. in Eng. is given after a 3 yrs.' course, and Certifs. in Eng. (2 yrs.); a Dipl. in Archit. (5 yrs.) and a Certif. in Archit. (3 yrs.); a Certif. in Decoration (3 yrs.); a Dipl. in Chem. Eng. (3 terms); a Certif. in Town Planning (3 terms).

All departments of the College are available for POST-GRADUATE AND RESEARCH WORK, and the respective Professors are always prepared to advise students wishing to undertake research.

DEPARTMENT OF EUGENICS. The Francis Galton Laboratory was founded in 1904 for the study of those agencies under social control that may improve or impair the racial qualities of future generations, either physically or mentally. Open to Research students in Eugenics of both sexes. Research workers can start at any time during the session, but, unless attending the lectures in the Dept., are expected to have a preliminary training either in Biology or Maths. For staff v. *supra*.

Courses of Instruction are given on National Eugenics and cognate subjects, and also short courses of popular lectures. Fees (for Research workers): per term, £4:14:6. A fee of 17 gs. per session admits to the Eugenics Laboratory on all days and to all lectures, as well as to the use of the Library and of the material in the Archives. Fee for use of calculators, 1½ gs. per term.

THE BARTLETT SCHOOL OF ARCHITECTURE was established in 1914 by the combination of the Archit. Schools of University and King's Colleges. The Certificate (3 yrs.) and Degree or Diploma (5 yrs.) courses are recognized by the R.I.B.A. as exempting from the R.I.B.A. Intermediate and Final examns. respectively. A Division of Decoration, instituted with the co-operation of the Inc. Institute of British Decorators, provides a 3 yrs.' Certificate Course. The accommodation includes two large Studios, a Museum, a Cast Gallery, a Library, a Lecture Theatre, and a Class Room. Rooms are also provided for the Department of Town Planning instituted in Oct. 1914. The day work is supplemented by evening classes in design. There is an Atelier for graduates and advanced students. For staff v. *supra*.

FOREIGN STUDENTS are admitted to the College on the same terms as British.

They are expected to produce identification papers. In August a *Vacation Course* is held in Phonetics and Spoken English (Director: Prof. Daniel Jones). Men attending that Course can reside at University College Hall, Ealing; women at College Hall, London, W.C.1. Courses in Aspects of British Life and Civilization take place *throughout the session*. The Ramsay Memorial Fellowships in Chemical Science founded by certain Foreign Governments are tenable at Univ. Coll., London, among other places; 4 Fellows are now working there.

**FEES.** Entrance Registration—1 g.; overseas students—2 gs.; Composition for 3 sessions' course in Arts—98 gs.; 5 sessions' course in Archit.—228 gs.; 3 sessions' course in Science—108 to 140 gs.; Chem. Engin., 188 gs.; Engin.—168 gs.; Econ.—26 gs. per session; Med. for 1st examn.—38, 2nd—80 gs.; Laws—Day 28 gs., Evening 21 gs. per session; Fine Art—28 gs. per session; for Higher Civil Service—35 gs. (25 gs. to those who have taken undergraduate course at the College).

**SCHOLARSHIPS, ETC.** Annual value, about £4391 (including £1611, Entrance Scholarships). Extra Bursaries amounting to £474 were granted in 1936-37. In addition, Exhibition Bursaries (towards fees) and special remissions amounting to £391 were granted.

**RESIDENCE.** A Hall for 69 men at Ealing (Warden: A. S. Gilbert, LL.M.), £70 to £90 per session (three College terms). One for 172 women in Malet Street, W.C.1 (Principal: Miss T. B. Alleyne, M.Litt.), 81 to 117 gns. per session.

**PUBLICATIONS.** *Calendar* (Oct.), 3s. 6d.; *Annual Report*; *University College Magazine*; the various Faculty and Departmental Prospectuses; *Prospectus* of post-graduate courses and arrangements for research.

Galton Laboratory. *Annals of Eugenics*, a Journal for the genetic study of Human Population; *Eugenics Lab. Memoirs* and *Lecture Series* (popular exposition of conclusions); *Treasury of Human Inheritance*.

## THE YEAR 1936-37

**BENEFACTIONS.** Royal Italian Government (per Ambassador), £300 for Italian; Trustees of the late Viscount Leverhulme, £750 for Leverhulme Studentships in Chemical Eng.; Rockefeller Foundation, £600 in aid of work in Genetics, £500 for a research in Physiolog. Chem.; Chadwick Trustees, £200 for Munic. Eng. and Hygiene; the late Dr. A. T. Shearman (Fellow of the College), £1677 for endowment of a course of lectures on Symbolic Logic and Methodology; Mrs. E. E. Malcolm, 500 guineas for foundation of a Betty Malcolm Scholarship in the Slade School of Fine Art in memory of her daughter; Mrs. A. M. Suckling, £200 for endowment of a prize in Anatomy; bequest of the late Mr. John Edwin Faulkner, £200; Mr. H. Arthur Baker, Coronation gift of £100; Mr. H. L. Jackson, Governing Director of Messrs. H. K. Lewis & Co., Ltd., 2000 £1 preference shares; Mrs. Karl Pearson, some 2000 books and pamphlets, chiefly dealing with Germanic Philol., from the library of the late Emeritus Prof. Karl Pearson; Prof. E. S. Pearson, a number of books in App. Maths. from same source; French Government, through Institut Français du Royaume Uni, gift of French books to be selected from lists; Dr. C. Davies Sherborn, "Sherborn Collection" of several hundreds of mounted engravings collected by his late father, Mr. Charles William Sherborn; bequest of the late Emeritus Prof. Henry Tonks, 21 paintings, drawings and engravings from his collection; Prof. Tonks' executors, some fifty of his own drawings.

**NEW DEPARTMENTS AND POSTS.** Second (Chadwick) Chair of Engin., in

place of former Chadwick Chair of Munic. Engin. and Hyg.; Readerships in (i.) Philos., (ii.) Phonetics, (iii.) Maths., (iv.) Chem., (v.) Physiol. Readership in Dutch Lang. and Lit. re-instituted.

**EXTRA-MURAL WORK.** The Coll. does not undertake extra-mural work, but accommodation was provided in the Session 1936-37 for weekly meetings of 4 Univ. Tutorial Classes and of 2 Univ. Extension Courses. Upwards of 5600 persons attended the various Public Lectures given in the late afternoon or evening.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Among those who delivered Public Lectures at the College were: Prof. Norman Bentwich (Univ. Jerusalem—Palestinian Law); Prof. Bruce Dickins (Univ. Leeds—English); Prof. Henri Focillon (Univ. Paris—French Art); Prof. Henri Frankfort (Univ. Amsterdam—Archæol.); Prof. T. J. Haarhoff (Univ. Witwatersrand—Afrikaans); Prof. B. Karlgren (Univ. Gothenburg—Chinese Lang.); Prof. H. Lichtenberger (Univ. Paris—German Lit. and Philos.); Prof. Andrea Moschetti (Roy. Acad. Padua—Italian Art and Lit.); Prof. Dexter Perkins (Univ. Rochester, U.S.A.—Amer. Hist.); Dr. A. W. Pickard-Cambridge (Univ. Sheffield—Anc. Hist.); Prof. Roscoe Pound (Harvard Univ.—Laws); Prof. H. Rein (Univ. Göttingen—Physiol.); Prof. M. Rostovtzeff (Yale Univ.—Archæol.); Prof. Walter Starkie (Univ. Dublin—Spanish Lit.); Prof. K. von Frisch (Univ. Munich—Zool.); Prof. Lewis H. Weed (Johns Hopkins Univ.—Anat.); Prof. Martin Wolff (Univ. Berlin—Internat. Law).

**RETIREMENTS.** Prof. Sir Maurice Amos (Quain Prof. Comp. Law); Prof. F. G. Donnan (Chem.); Mr. Stephen Jones (Supt. Phonetics Lab.); Miss E. E. Quick (Lect., Phonetics).

**RESIGNATIONS.** M. Arsène Alexandre (Reader, Mod. French Hist.); Mr. F. Norman (Reader, German), now Prof. of German, King's Coll., Lond.; Mr. V. H. Galbraith (Lectr., Palæog. and Archives), now Prof. of Hist., Univ. Edinburgh; Dr. John Kirk (Senr. Tutor, Sci., Eng. and Med. Sci.—Senr. Demr., Anat.) now S. A. Courtauld Prof. of Anat., Middlesex Hosp. Med. Sch.; Dr. N. K. Adam (Lectr., Chem.) now Prof. of Chem., Univ. Coll., Southampton; Dr. C. Reid (Lectr., Physiol.) now Reader in Physiol., Lond. Hosp. Med. Coll.; Mr. R. A. Kekwick (Lectr., Biochem.).

**DEATHS.** Emer. Prof. Sir Grafton Elliot Smith (Chair of Anatomy, 1919-1936); Emer. Prof. Henry Tonks (Slade Chair of Fine Art, 1917-1930, Hon. Fellow); Emer. Prof. H. S. Foxwell (Chair of Pol. Econ., 1881-1927); Col. H. J. Harris (Teacher of Maths. and App. Maths., 1889-1933, Senior Tutor, 1925-1933, O.C. Univ. Lond. O.T.C., 1920-1926); Mr. W. Thomas Smith (Teacher of Wood Engraving, 1921-1936); Mr. J. H. Stothert (Asst., Pharmacol.).

**IMPORTANT EVENTS.** Hundredth Anniversary of granting of Royal Charter to "University College, London," by H.M. King William IV. (28th Nov. 1836), Reception by Provost (27th Nov. 1936); Centenary Celebrations of Numismatic Soc. (June 1936); Second Internat. Congress of Microbiol. (July 1936), Conference of Soc. of Chemical Industry (Oct. 1936) and 25th Ann. Conference of Educl. Assocs. (Jan. 1937) held at College; Lucien Wolf Memorial Lecture of Jewish Hist. Soc., delivered in Great Hall (Nov. 16, 1936), by Mr. H. Wickham Steed on "The Worth of Freedom," Mr. Philip Guedalla presiding; 13th Ann. week of *Little Plays of St. Francis* (Laurence Housman), by Coll. Dramatic Soc. (Jan. 1937); Foundation Week Celebrations (Mar. 1937), Oration by Lord Ponsonby of Shulbrede.

STUDENTS. Full-time: Total, 2105 (including 314 Graduates). Part-time: Total, 1180 (including 302 Graduates).

DEGREES OBTAINED. B.A., 140; M.A., 24; D.Lit., 2; B.A. (Arch.), 6; LL.B., 20; LL.M., 3; B.Sc., 94; M.Sc., 20; B.Sc. (Econ.), 20; B.Sc. (Eng.), 27; M.Sc. (Eng.), 1; Ph.D. (Arts), 20; Ph.D. (Econ.), 2; Ph.D. (Sci.), 35; Ph.D. (Eng.), 1; D.Sc. 6.

# UNIVERSITY OF LONDON, KING'S COLLEGE

Founded 1829

Strand, W.C.2

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CHAIRMAN OF THE DELEGACY—LORD BLANESBURGH, G.B.E., M.A., LL.D. Aberd.

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## TEACHING STAFF

*Anatomy, Descrip. and Surgical*  
Nicol, T., D.Sc., M.D. Glas.,  
F.R.C.S.E. Prof.

Stibbe, E. P., L.R.C.P., F.R.C.S.  
Reader.

Compton, A., F.R.C.S.  
(Applied A.) Lectr.

Wakeley, C. P. G., D.Sc., F.R.C.S.,  
Lectr.

4 Hon. Demrs., 3 Demrs.

*Assyriology*  
Gadd, C. J., M.A. Ox. Hon. Lectr.  
Smith, S., M.A. Camb. Hon. Lectr.

*Bibliography*, v. English

*Biology*, v. Zool.

*Botany and Plant Biology*  
Gates, R. Ruggles, M.A., LL.D.  
Mt. Allison, B.Sc. McG., Ph.D.  
Chic., D.Sc., F.R.S. Prof.  
Penston, Norah L., B.A., D.Phil.  
Ox., F.L.S. Lectr.

Dobbs, C. G., B.Sc., Ph.D.  
Asst. Lectr.

Spearing, J. K., B.Sc., Ph.D.  
Asst. Lectr.

1 Demr.

*Chemical Engineering*, v. Chem-  
istry and Engineering

*Chemistry*

Smiles, S., O.B.E., D.Sc., F.R.S.  
(to 31.7.38) Daniell Prof.

Allmand, A. J., D.Sc. Liv., F.R.S.  
(Daniell Prof. from 1.8.38)

Cremer, H. W., M.Sc., F.I.C.,  
M.I.Chem.E. Senr. Lectr.

Salmon, C. S., M.Sc. Brist.  
Senr. Lectr.

McClelland, E. W., D.Sc. Belf.,  
Ph.D. Durh., A.I.C. Lectr.

Dolley, L. G. F., B.Sc., Ph.D.  
Lectr.

Ward, L. Singlehurst, B.Sc. Lectr.  
Fairbourne, A., M.A. Ox., D.Sc.

Manc., F.I.C. Hon. Lectr.  
Style, D. W. G., B.Sc., Ph.D.

Lectr.

Simpson, J. C. E., B.Sc., Ph.D.  
Liv. Asst. Lectr.

2 Demrs.

*Classics*, v. also History

Thomson, J. A. K., M.A. Aberd.,  
B.A. Ox. Prof.

Knight, Clara M., D.Lit. Reader.  
Hall, E. B., M.A. Senr. Lectr.

Handford, S. A., M.A. Ox. Lectr.  
 Paul, Agnes S., M.A., B.D. Lectr.

### *Education*

Cavenagh, F. A., M.A. Prof.  
 Young, G. W., M.A. Camb.

Titley, A. F., B.Sc. Brist., D.Phil. Ox.  
 Sr. Lectr.

Bell, Clarissa C., M.A. Lectr.  
 Beales, A. C. F., M.A. Lectr.

Blackwell, Mrs. Annie M., B.Sc. Lectr.

Brown, P. P., B.A. Ox. Lectr.  
 Bearman, Mrs. Ethel C., M.A. Ox. Lectr.

Ward, H., C.B.E., M.A. Ox. Hon. Lectr.

3 Supervisors.

### *Engineering, Civil and Mechanical*

Lobban, C. H., D.Sc. (Eng.) Glas. (Civil E.) Prof.

Davies, S. J., M.Sc. Durh., Ph.D., D.Sc. (Mech. E.) Prof.

Giffen, E., M.Sc. Belf., Ph.D. (Mech. E.) Reader.

Lectrs.:

Beaufoy, L. A., M.Sc. (Eng.)  
 Ross, A. D., B.Sc. (Eng.), Ph.D. Edin.

Cooper, B., M.A. Camb.

### *Engineering, Electrical*

Catterson-Smith, J. K., M.Eng. Liv., M.I.E.E. Siemens Prof.

Clarke, H. M., M.Sc. Sr. Lectr.  
 Lee, B. C., B.Sc. Lectr.

### *English*

Reed, A. W., M.A., D.Lit. Prof.  
 Harrison, G. B., M.A. Camb., Ph.D. (E. Lit.) Reader.

Ingram, E. Gwendolen, M.A. (E. Philology) Senr. Lectr.

Isaacs, J., M.A. Ox. (E. Lit.) Lectr.  
 Garmonsway, G. N., M.A. Camb. (E. Lit.) Lectr.

McKerrow, R. B., Litt.D. Camb., F.B.A.

(E. Bibliography) Hon. Lectr.  
 Mack, Frances M., B.A., Ph.D.

Barrett, W. P., M.A., Ph.D. Camb. Lectr.

Smithers, G. V., M.A. S. Afr., B.A. Ox. Asst. Lectr.

Fulford, R. T. B., B.A. Ox. Asst. Lectr.

1 Asst.

### *French*

Saurat, D., D. ès L. Paris Prof.  
 Stone, Louise W., M.A.

(Romance Philol.) Reader.  
 Jones, R. A., M.C., M.A.

Sr. Lectr.  
 Spink, J. S., M.A. Leeds, D. de l'U. Paris Lectr.

Vigne, J., Agrégé de l'Univ. Lectr.  
 Muffang, May L., D. de l'U. Paris Asst. Lectr.

4 Assts.

### *Geography*

The Profs. of Botany, Geol., Civil Engin., Imperial Hist., Zool. (in conjunction with staff of London School of Economics).

Wood, H. J., B.Sc., Ph.D. (Historical Geog.) Lectr.

Wooldridge, S. W., D.Sc., F.G.S. Lectr.

Kirkaldy, J. F., M.Sc. Asst. Lectr.

### *Geology*

Gordon, W. T., M.A. Camb., M.A., D.Sc. Edin., F.G.S. Prof.

Wells, A. K., D.Sc., F.G.S. Reader.  
 Wooldridge, S. W., D.Sc., F.G.S. Lectr.

Kirkaldy, J. F., M.Sc. Asst. Lectr.

### *German*

Norman, F., M.A. Prof.  
 Rose, W., M.A. Birm., Ph.D. Hon. Lectr.

Stuart, Mrs. Hannah S. M., B.A.,  
Ph.D. Lectr.

Mainland, W. F., M.A. Edin.  
Lectr.

Hatto, A. T., M.A. Asst. Lectr.

*Greek, Modern, and Byzantine  
Hist.* [Koraes Prof.]

Marshall, F. H., M.A. Camb.

### *Hebrew*

Hollis, Rev. F. J., D.D. Lectr.

*History*, v. also Greek [Prof.]

Williams, C. H., M.A. Camb.

Newton, A. P., B.Sc., M.A., D.Lit.,  
F.S.A. (to 31.7.38).

Rhodes Prof. of Imperial H.

Scullard, H. H., M.A. Camb.,  
Ph.D. (Ancient H.) Reader.

Jenkinson, Hilary, M.A. Camb.,  
F.S.A.

(Diplomatic and English  
Archives) Reader.

Cronne, H. A., M.A. Belf. and Ox.  
(Palæog.) Lectr.

Steed, H. Wickham, LL.D. Strasb.  
(Central Europ. Hist.) Lectr.

Cronne, Mrs. Lilian M., M.A.  
Birm., Ph.D. Asst. Lectr.

Latham, R. C., B.A. Camb.  
Asst. Lectr.

Shaw, I. P., B.A. Ox. Asst. Lectr.  
1 Asst.

### *Italian*

Breglia, S., M.A. Lectr.

### *Journalism*

Harrison, G. B., M.A. Camb.,  
Ph.D. Tutor.

Clarke, Tom  
(Practical J.) Director.

1 Asst.

*Law*, v. p. 218

*Materia Med. and Pharmacology*,  
v. Physiology

### *Mathematics*

Temple, G. F. J., Ph.D., D.Sc.  
Prof.

Semple, J. G., M.A. Belf., Ph.D.  
Camb. Prof.

McVittie, G. C., M.A. Edin., Ph.D.  
Camb. Reader.

Henderson, J., M.A., B.Sc. Edin.,  
Ph.D. Sr. Lectr.

Shovelton, S. T., M.A. Ox. Lectr.

Combridge, J. T., M.A. Camb.,  
M.Sc. Lectr.

Edwards, B. A., M.Sc. Wales.  
Lectr.

Davies, E. T., M.Sc. Wales, Ph.D.  
Rome and Lond. Lectr.

Ferraro, V. C. A., B.Sc., Ph.D.  
Lectr.

Knight, R. C., M.Sc., Ph.D.  
Asst. Lectr.

Todd, J., B.Sc. Belf. Asst. Lectr.  
2 Assts.

### *Military Science*

Mathew-Lannowe, Brig.-Gen. E.B.,  
C.M.G., D.S.O. Reader.

Bayley, Col. A. G., C.B.E., D.S.O.  
Lectr.

### *Palæography*, v. Hist.

### *Philology*, v. English, French

### *Philosophy*, v. also Psych.

Hallett, H. F., M.A., D.Litt. Edin.  
Prof.

Hanson, Rev. Preb. R., M.A. Ox.,  
B.D. (P. of Religion) Lectr.

### *Physics*

Ellis, C. D., B.A., Ph.D. Camb.,  
F.R.S. Wheatstone Prof.

Richardson, O. W., M.A. Camb.,  
D.Sc., F.R.S.

Yarrow Research Prof.  
of the Royal Society.

Flint, H. T., D.Sc. Birm., D.Sc.,  
Ph.D. Reader.

Williams, W. E., M.Sc. Manc.,  
D.Sc. Lectr.

Oatley, C. W., M.A., M.Sc. Lectr.

Champion, F. C., M.A. Camb.,  
Ph.D. Lectr.

Worsnop, B. L., B.Sc., Ph.D.  
(Radiol.) Sp. Lectr.



- Fisher, Joseph W., B.Sc., Ph.D. Hon. Lectr.  
 Chapman, F. W., M.Sc., Ph.D. Asst. Lectr.  
 May, A. N., B.A., Ph.D. Camb. Asst. Lectr.
- 4 Demrs.
- Physiology*  
 McDowall, R. J. S., D.Sc., M.D. Edin., F.R.C.P. Edin. Prof.  
 Robson, Wm., Ph.D. Edin., D.Sc. (Bio-Chem.) Reader.  
 Hewitt, J. A., Ph.D. St. And., D.Sc., A.I.C. Senr. Lectr.  
 Thompson, J. H., B.Sc. Lectr.  
 Dunlop, H. A., M.Sc., M.D., M.R.C.S., M.R.C.P. (Pharmacol.) Lectr.  
 Edholm, O. G., B.Sc., M.B., B.S., M.R.C.S., L.R.C.P. Asst. Lectr.
- Hon. Lectrs. :  
 Negus, V. E., M.B., M.S., F.R.C.S. (Laryngology).  
 Pickering, J. W., D.Sc. (Hæmatol.).  
 Plummer, N. S., M.D., M.R.C.S., L.R.C.P.
- 4 Demrs.
- Portuguese*  
 West, S. G., O.B.E., M.A. Lectr.  
 Gomes, H. de B. Lectr.
- Psychology*  
 Aveling, F. A. P., M.C., Ph.D. Louv., D.Sc., D.Lit. Prof.
- Hadfield, J. A., M.A. Ox., M.B., Ch.B. Edin. Lectr.  
 Bartlett, R. J., M.Sc., A.R.C.S. Lectr.
- 1 Hon. Demr., 1 Demr.
- Romance, v. French*  
*Spanish Studies*  
 Pastor, A. R., B.Litt. Ox., D.Phil. Madrid Cervantes Prof.  
 Perry, Janet, B.A. N.U.I., M.A. Lectr.  
 Carey, J. R., B.A. Lectr.  
 Jameson, A. K., M.A. Edin., Ph.D. Asst. Lectr.  
 Humphreys, R. A., M.A., Ph.D. Camb. (Spanish Hist.) Hon. Lectr.
- Theology, v. p. 195*  
*Zoology and Animal Biology*  
 Mackinnon, Doris L., D.Sc. Aberd. Prof.  
 Tribe, Margaret, D.Sc. Lectr.  
 Dawes, B., D.Sc., A.R.C.S., D.I.C. Lectr.
- Allanson, Marjorie, B.Sc., Ph.D. Asst. Lectr.
- 1 Hon. Demr., 2 Demrs.
- Gilbart Lecturer in Banking  
 1937-38—Prof. R. S. T. Chorley, M.A. Ox.

## GENERAL INFORMATION

Founded by Royal Charter in 1829 for "instruction in the various branches of Literature and Science and the doctrines and duties of Christianity," King's College consisted at first of a School and Departments of General Literature, Science, and Medicine, to which were added successively Engineering, Theological, and Oriental Depts. The Hospital was built in 1839; the Evening Classes were started in 1856, and a Women's Dept. in 1881. In 1910 the College School became a separate Corporation, the Hospl. and Advanced Med. School were made independent, the other Depts. (except the Theological) doing work of University standard were incorporated in the Univ. of London, while the Council remained the governing body of the Theol. Dept., which became a School of the Univ. In 1915 the Arts and Science Departments of King's College for Women, previously housed in South Kensington, were

transferred to the buildings of King's College, and the Household and Social Science Department to new buildings on Campden Hill. The Halley Stewart Laboratories of Physics Research, 30 Chesterford Gardens, Hampstead, were formally opened as a department of the College on May 4, 1933. The Dept. of Household and Social Science became a separate instn. in 1928 under the title of King's Coll. of Household and Social Science, v. *infra*. The School of Slavonic and East European Studies (40 Torrington Square, W.C.1) was constituted a separate department of the Univ. as from Aug. 1, 1932.

**LIBRARIES** (in all 88,000 vols.). In addition to the General Library there are the following Special and Departmental Libraries: (1) The Marsden (Philol.), (2) Wheatstone (Electr. and kindred subjects), (3) Skeat and Furnivall (Philol. and Engl. Lit.), (4) Ronald Burrows Library (Mediaeval and Mod. Greek), (5) Frida Mond (Goethe and German Lit.), (6) T. R. R. Stebbing (Zool.), (7) F. D. Maurice Collection, (8) The Box Library (Semitic Studies). There are also the following Departmental Libraries: 1. Anat. 2. Bot. 3. Chem. Engin. 4. Chem. 5. Classics. 6. Educn. 7. Elect. Engin. 8. Engin. (Civ. and Mech.). 9. French. 10. Geog. 11. Geol. 12. German. 13. Hebrew. 14. Hist. 15. Maths. 16. Pharmacol. 17. Physics. 18. Physiol. 19. Psychol. 20. Spanish. 21. Zool.

**LABORATORIES AND MUSEUMS.** Anat. (Hughes Collection), Comp. Anat., Biol., Bot., Chem., Chem. Engin., Engin., Geol. and Mineral., Mat. Med., Metall., Pharmacol., Physics, Physiol. (including Bio-Chem. and Histol.), Psych., Zool.

**FACULTIES.** Arts, Laws, Natural Science, Medical Science, Engineering, Theology. Dean: Prof. A. W. Reed (English), Dr. H. Potter (English Law), Prof. G. Temple (Maths.), Prof. R. J. S. McDowall (Physiol.), Prof. C. H. Lobban (Engin.), Rev. Preb. R. Hanson, M.A., B.D. (Theol.).

Evening Class Department (classes in connexion with faculties of Theology, Arts, and Law). Dean, Prof. W. T. Gordon (Geol.).

**TUTOR TO WOMEN STUDENTS.** Dorothy Brittain, M.A. Manc.

**DEGREE COURSES** in Arts, Laws, Science, Engineering, and Theology. Prelim. and Interm. courses in Medicine, and courses for the First and Second Exams. for Dental Degrees. Day Training College under the Board of Education. Dept. for training secondary Teachers (men and women). Dept. of Journalism, in which students are prepared for the Journalism Diploma of the Univ. of London. Students are also prepared for the Univ. Diploma in English Lang. and Lit.

Engineering students receive preliminary workshop training in their first year. Facilities are provided for spending half of each summer vacation in engineering works. Those taking 4 years' course spend part of each year (18 months in all) in practical training.

**OTHER COURSES.** 1-yr. postgraduate course in Chem. Eng. leading to Certificate. Object of course is to train student in scientific principles underlying methods of carrying out chemical processes on technical scale by teaching him to apply principles of Physics, Physical Chemistry and Engineering to general methods and apparatus employed in industry. Ample facilities for investigation of industrial problems are provided. Associateship of College is open to men and women who have graduated after 3-yrs. course and have also attended prescribed course in Divinity. Diploma course in Engineering, ordinarily 3 yrs. Certificates in Palæography, Italian, Hebrew, Syriac, Spanish, Portuguese and Applied Psychol.

**ADVANCED STUDY.** Special facilities in English (including Bibliography), History (especially Mediæval, Colonial, and Ancient), Spanish, Portuguese, Modern Greek, Education, and several Depts. of Science.

**FEES.** Tuition per Session, including fees for games, library, and union society: Arts, 30 to 37 gs.; Laws, 21 to 28 gs.; Science, 35 to 50 gs.; Med., £40 to £44; Engin., 48 to 60 gs.

**SCHOLARSHIPS.** For graduates: In Arts 5, aggregate value £530 p.a.; Natural Science 5, ag. value £690 p.a.; Medical Science 4, ag. value £900 p.a.; Theology 1, ag. value £140 p.a.

Five of £20 p.a., open to matriculated students of the Univ., on condition of their reading for the B.D.

For open Postgrad. Exhibitions, etc., v. Appendix II. 19.

**RESIDENCE.** Three hostels, one Theol. for 72 men (Warden: Rev. O. Hardman, D.D.), one general for 80 men (Warden: D. W. G. Style, B.Sc., Ph.D.), and one for 55 women (Warden: Miss P. Boys-Smith, B.A.). These Hostels are recognized by the Board of Education.

A REGISTER OF FORMER STUDENTS is maintained, in which changes of address are recorded without charge.

**PUBLICATIONS.** Separate Syllabus for each Faculty post free. *Calendar*, 4s. 6d. post free; *K.C. Review*; *Union Society Handbook*; *King's Engineer*; *King's Counsel*; *Old Students' Association Year Book*.

## THE YEAR 1936-37

**BENEFACTIONS.** Sir Halley Stewart Trust, technical equipment (hitherto on loan) valued at over £1000. Anon., £1000 for helping cases of financial hardship among undergraduates and for assisting research students. Bovril, Ltd., continuation for a further year of funds for two Research Studentships in Physiol. Dr. J. W. Pickering, endowment of annual Prize in Biochem. Mr. W. J. Courtauld, £83 for the Regent's Park Laboratories. Empire Cotton-Growing Corporation, renewal for 3 yrs. of grant of £50 in support of Fund for Botanical Research in Regent's Park. French Government, books of the value of 30,000 francs. Minister of National Education in Lisbon, a copy of *História da Colonização Portuguesa do Brasil* (3 vols. *de luxe*). Lady Deller, Law books from the library of the late Sir Edwin Deller. Prof. E. Prestage, books on Portuguese. The late Mr. W. F. Aitken, some 400 vols. dealing with Elizabethan literature. Mrs. J. Wilson Potter, a microscope for demonstration purposes. Mr. C. Tristan D'Oyly, loan of two oil paintings by Ross of Rev. George D'Oyly and his wife.

**NEW POSTS.** Readership in Law in place of Lectureship. Asst. Lectureship in Law in place of an Assistant. Lectureship in German (especially modern German literature) in place of part-time Readership.

**OTHER DEVELOPMENTS.** Courses for the Journalism Diploma to be concentrated at King's College, full concentration being effected after the Session 1937-38. In place of part-time Readership in English (vacated by resignation) staff of English Dept. has been strengthened with special reference to needs of academic courses for Journalism Diploma. Evening Diploma Course in English Lang. and Lit. to be discontinued in 1940; no further entrants to the course, normally one of 4 yrs., will therefore be accepted. New syllabus instituted in Maths. planned on basis of 3 yrs.' study after Intermediate Examn. Special arrangements for students to complete course in 2 yrs. if necessary.

**EXTRA-MURAL WORK.** The College does not undertake extra-mural work, but a number of Public Lectures are given in the Coll. ; these were attended in 1936-37 by about 25,000 persons.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** The following lectured in the College: Rev. Canon Kenneth E. Kirk (Regius Prof. of Moral and Pastoral Theol., Oxford) on "Conscience and Casuistry"; Dr. John Johnson (Printer to the Univ. of Oxford) on "Methods of Excavation for Greek Papyri in Egypt"; Mr. R. J. H. Jenkins (Cambridge) on "Modern Greek Novels"; Mr. J. L. Stocks (late Vice-Chancellor, Univ. of Liverpool) on "Materialism in Politics"; Prof. J. H. Baxter (Regius Prof. of Ecclesiastical Hist., Univ. of St. Andrews) on "The Imperial Palace at Constantinople"; Prof. J. Carcopino (Prof. of Roman Hist., Univ. of Paris) on "Les Aspects Modernes de l'Antiquité Romaine"; Rev. Prof. George Florovsky (Orthodox Theological Institute, Paris) on "Patristic Doctrine of Atonement"; Don Aurelio Viñas (Asst. Director, Institut d'Études Hispaniques, Paris, Prof. of History, Univ. of Seville) on "Philip II and the Escorial"; Dr. P. E. Pieris (Ceylon Trade Commissioner, Socio do Instituto de Coimbra) on "Portugal in Ceylon, 1505-1658"; Dr. W. A. J. M. Van Waterschoot van der Gracht (Heerlen, Holland) on "The Sub-Surface Structure and the Sediments of the Great Basin of North-Western Europe"; M. A. G. Politis (Counsellor of the Greek Legation in London) on "Influence of Journalism on Modern Greek Literature."

**VISITS BY MEMBERS OF THE STAFF.** Dr. W. R. Halliday (Principal) represented King's College at the International Conference on Higher Education held in Paris. Prof. W. T. Gordon (Geol.) represented the Univ. of London at the 17th International Geological Congress held in Moscow. Prof. A. P. Newton (Hist.) and Mr. S. G. West (Portuguese) attended the First Congress of Portuguese Expansion held in Lisbon. Miss L. W. Stone (Romance Philol.) represented the Univ. of London at the Fifth International Congress of Romance Languages held at Nice. Prof. S. J. Davies (Engin.) lectured at the Technical High School, Berlin. Prof. R. R. Gates (Botany) lectured to the Oxford Junior Scientific Club on "Some Aspects of Genetics," and to the Natural History and Philosophical Society, Belfast, on "Evening Primroses and Evolution." Prof. A. Pastor (Spanish) lectured at the Institut d'Études Hispaniques in Paris on "Seneca and the Origins of the Spanish Drama." Prof. D. Saurat (French) lectured at the Univs. of Groeningen, Amsterdam and Zwolle on "Victor Hugo." Dr. L. A. Beaufoy (Engin.) lectured to the Lincoln Branch of the Assn. of Engineering and Shipbuilding Draughtsmen on "Stress Determination by Deformeter Analysis." Mr. S. Breglia (Italian) gave the Sixth Herford Memorial Lecture at Manchester on "La figurazione dell' oltremondo e l'unità poetica della *Divina Commedia*."

**RETIREMENTS.** Prof. H. G. Atkins, F.K.C., Prof. of German since 1900 and Asst. Principal since 1919. Mr. F. S. Robertson, Senr. Lectr. in Elect. Engineering. Sir Charles Odgers, Lecturer in Laws. Mr. H. G. Hallett, Asst. to the Secretary.

**RESIGNATIONS.** Dr. H. V. Routh, Reader in English Lit., appointed to Byron Chair of English Lit. in the Univ. of Athens. Dr. M. A. Chaplyn, Lectr. in Education, appointed Headmistress of Edinburgh Ladies' College. Dr. D. G. Catcheside, Lectr. in Botany, appointed to Lectureship in the Univ. of Cambridge.

**DEATHS.** Sir Lulham Pound, Bart., J.P., F.K.C., a Life-Governor of the College, Treasurer of the Council, 1929-37, and a member of the Delegacy, 1928-35. Emeritus Prof. Sir Herbert Jackson, K.B.E., F.R.S., F.K.C., Prof. of

Chemistry, 1905-19. Mr. Victor J. T. Spiers, F.K.C., Prof. of French Lang. and Lit., 1889-1926. Mr. H. J. H. Mackay, F.K.C., Lectr. in Laws, 1892-1930, Dean of the Faculty, 1914-30. Dr. J. K. Fotheringham (Classics and Ancient Hist.), 1904-20. Dr. David Sommerville (Dept. of Public Health), 1903-25. Dr. P. H. Box (Constitutional Hist.).

STUDENTS. Full-time day students working for a degree or diploma (including Theol. 212): 1882, including 211 graduates. Part-time (including Theol. 106): 730, including 111 graduates.

DEGREES OBTAINED. B.D., 10; B.A., 170; M.A., 8; LL.B., 33; LL.M., 4; B.Sc., 99; M.Sc., 12; D.Sc., 5; B.Sc. (Eng.), 24; M.Sc. (Eng.), 5; Ph.D. (Theol.), 1; Ph.D. (Arts), 8; Ph.D. (Science), 13; Ph.D. (Eng.), 1; Diplomas, 175.

# UNIVERSITY INSTITUTES AND DEPARTMENTS

## UNIVERSITY OF LONDON, INSTITUTE OF EDUCATION

(Formerly LONDON DAY TRAINING COLLEGE)

Founded 1902

Postal Address—Institute of Education (London Day Training College),  
Southampton Row, W.C.1.

Telephone : Holborn 9144-5

DIRECTOR AND ADVISOR TO OVERSEA STUDENTS—Prof. F. CLARKE,  
M.A. Ox.

WARDEN—Miss M. B. GWYNNE, M.A. Camb.

SENIOR TUTOR—P. GURREY, B.A., Ph.D.

SCHOOLS RELATIONS OFFICER—A. S. HARRISON, M.Sc. Manc.

SECRETARY—Miss G. M. WACEY.

LIBRARIAN—Miss G. DE MONTMORENCY.

### TEACHING STAFF

The Director  
Hamley, H. R., M.A., M.Sc. Melb.

Prof.  
Prof.

Lauwerys, J. A., B.Sc.

Scarfe, N. V., M.A.

Shillan, D., M.A. Camb.

#### Lecturers :

Fleming, Charlotte M., M.A.,  
Ed.B., Ph.D. Glas.

Duff, C. St. L.

The Senr. Tutor

The Warden

Harrison, A. S., M.Sc. Manc.

Isaacs, Mrs. Susan, M.A. Camb.,  
D.Sc. Hd. of Child Development Dept.

Jeffreys, M. V. C., M.A. Ox.

Mumford, W. Bryant, M.A. Camb.,  
Ph.D. Tor. (Comp. Edn., esp.  
Primitive Peoples).

Smith, C. E., M.A., D.Paed. Tor.,  
B.A.

Smith, F. J. Kinchin, M.A. Ox.

Calthrop, Margaret G., Mod. Lang.  
Tripos.

Parker, B. N., M.A.

Taylor, A. Clifton, M.A. Camb.

Warden, Winifred M., M.Sc. Birm.

Whaite, H. C., Slade Dip.

6 Instrs. in Handwork, 1 in Music,  
1 in Voice Production, 2 in  
Phys. Tr., 8 Supervisors of  
School Practice.

## GENERAL INFORMATION

London Day Training College was founded by the London County Council in 1902 as an institution in connexion with the Univ. working under the Regulations of the Board of Education for the Training of Teachers. The first Principal (1902-22) was Prof. (later Sir) John Adams. From 1909 to 1932 the Coll. was a School of the Univ. in Pedagogy, and as such was governed by a College Council composed equally of representatives of the L.C.C. and of the Senate. On Sept. 1, 1932, as the result of an agreement between the Board of Education, the L.C.C., and the Univ., the Coll. was transferred to the educational and financial control of the Univ., and its title was changed to "University of London, Institute of Education." The Institute is administered as a "central activity" of the Univ. by a Delegacy appointed by the Senate, and composed of representatives of that body, of the L.C.C., and of the teaching staff, together with certain co-opted members. Its work is carried on in the building erected by the L.C.C. in 1907 for London Day Training Coll., but will eventually be transferred to a new building on the Bloomsbury site provided by a special grant from the Council to the Univ.

Students are trained under the Regulations for the Training of Teachers (H.M. Stationery Office, Kingsway, W.C.2) for Elem. and Secondary Schools. Undergraduates can take a 4 yrs.' course so as to combine B.A., B.Sc., or B.Sc.Econ. courses (taken at other Colls.) with Professional training. One who has already graduated may devote himself continuously for a year to the theory, etc., of Educn. and obtain the Univ. diploma.

**FEES AND COURSES.** "Recognized" students taking 4-yr. or 1-yr. course under Regulations for Training of Teachers, entrance fee only, £20; private students taking 1-yr. course, £45; special Colonial 1-yr. course, £55; 1-yr. course for Teachers of Art, £30; 1-yr. course in Dept. of Child Development, £31:10s. In addition, Union and Library Fee of £2:10s. for students taking any of above courses. M.A. (Education) 2-3 yrs., inclusive fee for course, £22:1s. plus £1:1s. registration. Ph.D. (Education) 2-4 yrs., inclusive fee for course £44:2s. plus £1:1s. registration.

**PUBLICATIONS.** The *Yearbook of Education* (pubd. by Messrs. Evans Brothers in assn. with the Institute), 35s. *Studies and Reports*: No. I—"Educational Problems in the Far East and the Near East," by C. H. Becker. No. II—"The Outlook in Education," by I. L. Kandel. No. III—"Tendencies in University Education," by Edwin Deller. No. IV—"The Yao Tribe, Their Culture and Education," by Benno Heckel and "Arts and Crafts in the Training of Bemba Youth," by Griffith Quick. No. V—"Quebec and South Africa: A Study in Cultural Adjustment," by F. Clarke, M.A. No. VI—"John Adams: A Lecture in His Memory," by Sir Michael Sadler. No. VII—"Some Aspects of Indian Education, Past, Present, and Future," by Sir Philip Hartog (in preparation). No. VIII—"Thomas George Tibbey: A Lecture in His Memory," by P. B. Ballard. No. IX—"Some Aspects of Education in Tropical Africa," by E. R. J. Hussey, H. S. Scott, and the Right Rev. J. J. Willis. No. X—"Education for Citizenship," by Ernest Barker. No. XI—"Free, Compulsory, and Secular: A Critical Estimate of Australian Education," by G. V. Portus. No. XII—"Education and Revolution in Spain," by José Castillejo. Obtainable from the Institute, price 1s. each; Nos. I, IV, VII, IX and XI, 2s. each.

## THE YEAR 1936-37

**BENEFACTIONS.** The Carnegie Corporation of New York, renewal of grant of \$22,500 for further 3 yrs. for extension of facilities for students from overseas

and strengthening of relations with overseas countries. Payne Fund of New York, special grant of £100 for provision of addnl. lectures and research facilities for studies in the teaching of English as a foreign lang. Lord Leverhulme, £50, allocated to research purposes in the same field. Mrs. Harry Sacher, third gift of £400 for two fellowships to enable selected Jewish teachers in Palestine to attend course on Child Development and other courses in the Institute. The May Esther Bedford Fund, increased contributions towards equipment of the Colonial Dept. and expansion of its activities.

NEW POST. Schools Relations Officer (from 1.8.37).

VISITS OF TEACHERS FROM OTHER UNIVERSITIES AND PUBLIC LECTURES. Prof. José Castillejo (Univ. of Madrid) three lectures on "Education and Revolution in Modern Spain." Prof. G. V. Portus (Univ. of Adelaide) three lectures on "Free, Compulsory, and Secular: A Critical Estimate of Australian Education." Dr. W. G. Adams, C.H., Warden of All Souls Coll., Oxford, the fourth Adams Lecture on "Adult Education in England."

STUDENTS. Full-time: 295, including 249 graduates. Part-time: 223, including 198 graduates.

DEGREES OBTAINED. M.A. (Education), 10; Ph.D. (Education), 3; Teacher's Diploma, 197; Alternative Exam., 46.

## UNIVERSITY OF LONDON, COURTAULD INSTITUTE OF ART

Founded 1932

20 Portman Square, London, W.1.

Telephone: Welbeck 1388-9

CHAIRMAN OF MANAGEMENT COMMITTEE—SAMUEL COURTAULD, D.Lit., J.P.

DIRECTOR—T. S. R. BOASE, M.C., M.A.

DEPUTY DIRECTOR—W. P. GIBSON, B.A. Ox.

HEAD OF SCIENTIFIC DEPARTMENT AND LABORATORY—DANIEL THOMPSON, Jr., M.A.

ASSISTANT IN SCIENTIFIC DEPARTMENT—S. REES JONES, M.Sc.

TECHNICAL CONSULTANT—H. RUHEMANN.

REGISTRAR—H. D. D. STREATFEILD, B.A.

LIBRARIAN—RHODA WELSFORD.

### TEACHING STAFF

*Æsthetic and Critical Theories*  
Blunt, A. F., B.A. Camb.

*Architecture, Hist. of*  
Webb, G., M.A. Camb. (Slade  
Prof., Cambridge).



*Architecture, Italian*  
Blunt, A. F., B.A. Camb.

*Art, Hist. of*  
The Director Prof.  
Gibson, W. P., B.A. Ox. Reader.

*Byzantine and Near Eastern Art*  
Rice, Prof. D. Talbot, M.A., B.Sc.  
Edin.

*Celtic and Viking Art*  
Kendrick, T. D., M.A. Ox. (Brit.  
Museum).

*Ceramics*  
Rackham, B., C.B., M.A. Camb.,  
F.S.A. (V. and A. Museum).

*Chinese Art and Archæology*  
Yetts, W. P., O.B.E., D.Lit.,  
M.R.C.S. Prof.

*Drawings*  
Popham, A. E., B.A. Camb. (Brit.  
Museum)

*Engravings*  
Hind, A. M., O.B.E., M.A. Camb.,  
F.S.A. (Brit. Museum)

*Etching*  
Hardie, Martin

*Flemish Art*  
Cammaerts, Emile, C.B.E., LL.D.  
Glas. Prof.  
Norris, E. C.

*Furniture*  
Edwards, H. C. R. (V. and A.  
Museum)  
Mann, J. G., M.A., B.Lit. Ox.,  
F.S.A.  
Gibson, W. P., B.A. Ox.

*Goldsmiths' and Silversmiths  
Work*  
Hughes, G. R.

*Iconography and Costume*  
Mann, J. G., M.A., B.Lit. Ox.,  
F.S.A.  
Saxl, Dr. F. (Warburg Library)

*Indian Art*  
Krammisch, Miss Stella, Ph.D.

*Painting, Dutch and Flemish*  
Norris, E. C.

*Painting, English*  
Johnson, C. (Nat. Gallery)

*Painting, French*  
Wellington, H. L. (Edinburgh Coll.  
of Art)  
Gibson, W. P., B.A. Ox.

*Painting, Italian*  
Clark, Sir Kenneth, K.C.B. (Nat.  
Gallery)  
Shaw, J. Byam, M.A. Ox.

*Painting, Medieval*  
..... Prof.

*Painting, Spanish*  
Harris, Miss E., Ph.D.

*Romanesque Art*  
Clapham, A. W., C.B.E. (R.  
Commn., Hist. Monuments)

*Sculpture, English and French*  
Mann, J. G., M.A., B.Litt. Ox.,  
F.S.A.

*Sculpture, Gothic*  
Gardner, Arthur, B.A. Ox.  
Evans, Joan, Ph.D.

*Sculpture, Gothic, German*  
Freyhan, R., Ph.D. (Marburg)

*Stage Design and Costume*  
Laver, James, B.A. Ox.

*Technique in Art, Medieval*  
Thompson, Dr. D. V. (Harvard  
Univ.)

*Technique of Old Masters*  
Ruhemann, H. (Kaiser Friedrich  
Museum, Berlin)

*Textiles*  
Kendrick, A. F. (V. and A.  
Museum)

For information as to Public Lectures in most of the subjects mentioned above application should be made to the Registrar.

## GENERAL INFORMATION

Opened to students Oct. 1933, as the result of a gift of £100,000 for buildings and partial endowment by Mr. Samuel Courtauld, and of gifts by Sir Joseph Duveen and Sir Herbert Cook. Other benefactions include a gift by Mr. J. G. Graves and the bequest by the late Mr. Norman Wilkinson of Four Oaks of his estate, with which a Scientific Dept. and Laboratory has been established. A Univ. Dept. concerned with teaching and research in the History of Art, including both European and Oriental. Courses are provided leading to B.A. Hons., M.A. and Ph.D. in the History of Art and in Archæology, also to a Diploma in both subjects. Research students also accepted, and a number of lectures are given to which the general public are admitted. The students are mainly graduates. The present headquarters of the Institute, one of the finest examples of the work of the Brothers Adam, is also a gift from Mr. Courtauld. When the headquarters of the Institute are moved to Bloomsbury, 20 Portman Sq. will remain the official residence of the Director, and a centre for special studies.

**FEES.** For full-time students, £40 p.a. Public lectures, single lectures, or short courses, 4s. each lecture. Composition fee to cover all lectures, £10; and if the use of the libraries is included, £13.

**LIBRARY.** 12,000 vols., and Conway Library of reproductions. The Witt Library at 32 Portman Square gives special facilities to students.

## THE YEAR 1936-37

**BENEFACTIONS.** Mr. George Eumorfopoulous, books on Oriental art.

**RESIGNATIONS.** W. G. Constable, Director. G. Webb, Asst. to Director and Lecturer. F. J. B. Watson, Registrar.

**STUDENTS.** Full-time 52, including 12 graduates; part-time, 11.

**DEGREES OBTAINED.** Fac. of Arts, History of Art: B.A. Hons., 4; M.A., 1; Ph.D., 2; Archæology: B.A. Hons., 2; M.A., 1; Ph.D., 1; Diploma in Hist. of Art, 7.

UNIVERSITY OF LONDON, SCHOOL OF  
SLAVONIC AND EAST EUROPEAN STUDIES

Founded 1915

40 Torrington Square, London, W.C.1.

Telephone: Museum 9738.

**CHAIRMAN OF COUNCIL**—The Rt. Hon. THE EARL OF ONSLOW, P.C., J.P., D.L.

**DIRECTOR**—Sir BERNARD PARES, K.B.E., M.A. Camb.

**SECRETARY**—DOROTHY GALTON.

**LIBRARIAN**—S. YAKOBSON, Ph.D. Berlin.

## TEACHING STAFF

*Czechoslovak*

Wellek, R., Ph.D.

Research Fellow.

*History, Central European*  
Seton-Watson, R. W., D.Litt. Ox.,  
Ph.D. Prague and Zag.

Masaryk Prof.

<i>Hungarian</i>	Struve, G. P., B.A. Ox. (Lit.).
Szenczi, N. J., M.A. Aberd., Ph.D.	Lectr.
<i>Polish</i>	Turin, S. P., D.Sc (Econ.) Lectr.
Rose, W. J., B.A. Manit., M.A. Ox.,	Yakobson, S., Ph.D. (Hist.)
Ph.D. Cracow	Hon. Lectr.
Wharton, L. C., M.A. Ox.	Zernov, N., Ph.D. Ox. (Church
Hon. Lectr.	Hist.)
<i>Russian</i>	Hon. Lectr.
Pares, Sir Bernard, K.B.E., M.A.	<i>Serbo-Croat and Slovene</i>
Camb. (Hist.)	Subotić, D. P., Ph.D. Munich,
Boyanus, S. C. (Lang.)	B.Litt. Ox.
Raffi, Arshak (Lang.)	<i>Slavonic Philology, Comparative</i>
Lectr.	.....

## GENERAL INFORMATION

Established at King's Coll., 1915. Since Aug. 1932 a dept. of the Univ. in Arts. Library, 12,000 vols. FEES: £2: 10s. to 34 gs. per session. COURSES: Special intensive courses for War Office, etc. students, and an extensive programme of lectures open to the public. Teaching provided in the lang., lit., hist., and econ. of Russia and the lesser-known countries of Eastern and Central Europe. Special facilities for research and post-graduate work. A diploma is open to students who have not matriculated at the Univ. Post-grad. Scholarship, *v. App. II.*, 31.

PUBLICATIONS: *Slavonic and East European Review* (3 times a yr.), 6s. per part.

## THE YEAR 1936-37

NEW DEVELOPMENT. Arrangements made for the teaching of Hungarian from October 1937.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Prof. Seton-Watson, to Oxford; Dr. W. J. Rose, to Birmingham and Cambridge; Dr. R. Wellek and Dr. N. Zernov, to Armstrong Coll., Newcastle.

RESIGNATION. Prof. N. B. Jopson (Comparative Slavonic Philol.), on appointment to Chair of Comparative Philol. at Cambridge.

STUDENTS. 135, including 11 graduates.

DEGREES OBTAINED. B.A. Hons. (Russian), 1. Academic Diploma in Slavonic Studies (Russian), 1.

## UNIVERSITY OF LONDON, INSTITUTE OF ARCHÆOLOGY

Founded 1934

*Temporary Address*—Inner Circle, Regent's Park, London, N.W.1.

CHAIRMAN OF MANAGEMENT COMMITTEE—Sir CHARLES R. PEERS,  
C.B.E., Litt.D. Leeds, D.Lit., F.S.A., F.B.A., F.R.I.B.A.

HON. DIRECTOR—R. E. M. WHEELER, M.C., D.Lit., V.P.S.A.

SECRETARY—KATHLEEN KENYON, M.A., F.S.A.

*Hon. Lectr. in Geochronology*—F. E. Zeuner, Ph.D.

## GENERAL INFORMATION

Equipment provided in the first instance for the study of the Archæology of the British Isles and Near East, esp. of those countries for which Gt. Britain has special responsibilities, such as Palestine, Mesopotamia, etc.

Teaching collections for British and Palestine archæology, notably the Petrie Palestinian collection, are available to students.

Courses arranged in Repair of Archæological Objects, Archæological Draftsmanship, and Archæological Photographs.

UNIVERSITY OF LONDON, BROWN ANIMAL  
SANATORY INSTITUTION

Founded 1871

149 Wandsworth Rd., Vauxhall, S.W.8.

Telephone : Macaulay 1450.

SUPERINTENDENT—Prof. F. W. T<sup>W</sup>ORT, M.R.C.S., L.R.C.P., F.R.S.

Established in 1871 for “investigating, studying, and, without charge beyond immediate expenses, endeavouring to cure maladies, distempers, and injuries any quadrupeds or birds useful to man may be found subject to.” It contains a Hospital, in which the diseases and injuries of animals are treated, and a Laboratory, where the investigation and study of diseases are carried on. Both In- and Out-Patients are treated (No. in 1936 : In, 60, Out, 1421). Clin. students may be admitted to the Vet. Depts., and Research students are received in the Laboratory. 5 lectures free to the public, based on the researches conducted in the Instn., are given annually at a College of the Univ. or the R. Coll. of Surgeons.

UNIVERSITY OF LONDON, INSTITUTE OF  
HISTORICAL RESEARCH

Founded 1921

Malet Street, W.C.1.

Telephone : Museum 3068.

HON. DIRECTOR—A. F. POLLARD, M.A., D.Litt. Ox., Litt.D. Manc., D.Lit., F.B.A.

SECRETARY AND LIBRARIAN—C. G. PARSL<sup>OE</sup>, B.A.

The Institute of Historical Research was opened in 1921 in temporary premises built, furnished, and presented to the University by an anonymous donor. The Institute is primarily a laboratory for the training of post-

graduate students in the methods of historical research, and for the use of visiting scholars while working in London. It is a department of the Univ., administered by a Committee appointed annually by the Senate. Situated behind the British Museum on part of the University site, it consists of a systematically planned series of seminar libraries, equipped with the books containing or describing the main sources of medieval and modern history. It is open not only to every professor, reader, or other teacher of history in the Univ. and his research students, but to historians, archivists, and teachers and research students from other Univs. approved by the Committee. Instruction, undertaken by members of the History Depts. of the Schools of the Univ., is carried on in (1) a series of preliminary courses dealing with the sources of English and Imperial history, an introduction to work in archives, and palæography classes; (2) a series of seminars dealing with special historical subjects. In addition, the Institute is active in promoting the organization of historical studies in general, undertaking bibliographical and other investigations, the results of which are published in its *Bulletin*, and arranging conferences.

**LIBRARY.** 51,591 books, periodicals, and pamphlets; also 948 maps, 536 facsimiles, 956 MSS.

**PUBLICATIONS.** *Handbook*; *Annual Report*; *Bulletin* published thrice a year with two annual supplements ("Guide to the Historical Publications of the Societies of England and Wales," and "Historical Research for University Degrees in the United Kingdom") and occasional Special Supplements. *Victoria History of the Counties of England* (General Editor: L. F. Salzman, M.A., F.S.A.).

## THE YEAR 1936-37

**BENEFACTIONS.** £10,000 from the Court of the University of London, and £7000 from the University Grants Committee toward the Fund for a Permanent Building. £1250 from the City of Oxford and the Colleges of the University of Oxford for the *Victoria History of Oxfordshire*, Vol. III—*The City and University of Oxford*. 2600 vols. on German History from the German Government. Mr. H. Guy Harrison, about 2500 books on English local history and kindred subjects, partly as loan but mostly as a gift.

## UNIVERSITY OBSERVATORY

Founded 1929

Mill Hill Park, N.W.7.

Telephone: Mill Hill 1618.

**DIRECTOR**—.....

**WILSON OBSERVER**—C. C. L. GREGORY, M.A. Camb., D.I.C., F.R.A.S.

THE UNIVERSITY OBSERVATORY is situated in Mill Hill Park, London, N.W.7, on a site granted by the Hendon Urban District Council on a 999 years' lease at a nominal rent. It contains a 24-inch reflecting tele-

scope, the gift of Mr. J. G. Wilson ; an 8-inch refracting equatorial telescope, the gift of Mr. H. R. Fry ; and a spectrographic laboratory. The work of the Observatory is designed to meet the needs of post-graduate research workers in Astronomy. At present researches are in progress on the following subjects : proper motions of faint stars ; photo-electric photometry ; absorption band spectra. A stellar spectrograph is now available for work in the ultra-violet. The 24-inch photographic and 18-inch visual twin telescopes from the Radcliffe Observatory, Oxford are in process of erection, and should be available for work on parallax and proper motion in the spring of 1938. The telescopes, dome, and a valuable collection of proper motion plates, charts, etc., are the gift of the Radcliffe trustees.

The Observatory is open to all properly qualified students of the University. Application for admission should be made to the Director.

# SCHOOLS OF THE UNIVERSITY

## IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

Founded 1907

Prince Consort Road, S. Kensington, S.W.7.  
Telephone: Kensington 4861.

VISITOR—H.M. THE KING.

CHAIRMAN OF THE GOVERNING BODY—The Rt. Hon. The LORD RAY-  
LEIGH, M.A., LL.D., Sc.D., D.Sc., F.R.S., D.L., J.P.

RECTOR—Sir HENRY THOMAS TIZARD, K.C.B., M.A. Ox., F.R.S.

SECRETARY AND SECRETARY TO THE DELEGACY—G. C. LOWRY, M.A.  
Camb.

REGISTRAR—P. ROEBUCK.

### TEACHING STAFF

#### *Aeronautics*

Bairstow, L., C.B.E., D.Sc.,  
A.R.C.S., F.R.S. (Aviation)

Zaharoff Prof. and Di-  
rector of Dept.

Hill, F. T., F.R.Ae.S., M.I.Ae.E.  
(Design) Asst. Prof.

#### Special Lecturers:

Rowe, A. P., B.Sc., A.R.C.S.,  
D.I.C., F.R.Ae.S. (Air Navi-  
gation and Instruments)

Cox, H. Roxbee, B.Sc., Ph.D.,  
D.I.C., F.R.Ae.S. (Aircraft  
Structures)

Preston, J. H., B.Sc., Ph.D.  
Asst. Lectr.

#### *Astrophysics*, v. Physics

#### *Bacteriology*

.....  
Asst. Prof. and Univ. Reader.

Jacobs, S. E., Ph.D., A.R.C.S.  
Asst. Lectr.

#### *Biochemistry*

Chibnall, A. C., M.A., Sc.D. Camb.,  
Ph.D., F.R.S. Prof.

Buston, H. W., D.Sc., A.R.C.S.,  
D.I.C. Lectr.

*Biology*, v. Bacteriol., Bot.,  
Entomol., Zool.

#### *Botany*

Brown, W. M.A. Edin., D.Sc.  
(Plant Path.) Prof.

Gregory, F. G., D.Sc., D.I.C.  
(Plant Physiol.) Prof.

Tabor, R. J., B.Sc., F.L.S.  
Asst. Prof. and Univ. Reader.

#### Lecturers:

Howarth, F., B.Sc., A.R.C.S.,  
F.L.S.

Henderson, F. Y., D.Sc., D.I.C.,  
F.L.S.

Blackman, G. E., B.A. Camb.

#### Asst. Lectrs.:

Pratt, Clara A., M.A., Ph.D.,  
D.I.C., F.L.S.

Hawker, Lilian E., M.Sc., Ph.D.

Oxley, T. A., B.Sc., A.R.C.S.  
Demr.

*Chemical Technology*

Egerton, A. C. G., M.A. Ox., B.Sc.,  
F.R.S. Prof.  
Finch, G. I., M.B.E., Dip. Tech.  
Chem. Zürich, F.Inst. P.  
(Applied Phys. Chem.) Prof.  
Newitt, D. M., M.C., D.Sc.,  
A.R.C.S., D.I.C.  
Asst. Prof. and Univ. Reader.  
Himus, G. W., B.Sc., A.R.C.S.,  
D.I.C. (Fuel T.) Lectr.  
Hancock, W. C., B.A. Camb.  
(Refractory Materials and  
Silicate Technol.) Lectr.  
Guggenheim, E. A., M.A., D.Sc.  
Camb.  
(Chemical Thermodynam-  
ics) Lectr.  
Outridge, L. E., Ph.D., D.I.C.  
Asst. Lectr.

*Chemistry*

Phillip, J. C., O.B.E., M.A., D.Sc.  
Aberd., Ph.D. Gött., F.R.S.  
(Phys. C.) Prof., Director  
of Inorg. and Phys.  
Labs. (to 30.9.38)  
Thorpe, J. F., C.B.E., D.Sc.  
Manc., Ph.D. Heid., F.R.S.,  
O. Lég. d'H.  
(Org. C.) Prof. and Direc-  
tor of Labs. (to 30.9.38)  
Briscoe, H. V. A., D.Sc., A.R.C.S.,  
D.I.C. (Inorg. C.) Prof.  
Asst. Profs. and Univ. Readers :  
Harwood, H. F., M.Sc. Manc.,  
Ph.D. Heid., F.I.C. (Inorg.  
C.)  
Kon, G. A. R., M.A. Camb., D.Sc.,  
D.I.C. (Org. C.)  
Ellingham, H. J. T., Ph.D.,  
A.R.C.S. (Phys. C.)  
Eldridge, A. A., B.Sc., F.I.C.  
Senr. Lectr.

Lecturers :

Sugden, J. N., Ph.D., A.R.C.S.,  
D.I.C.  
Bull, P. C., D.S.O., A.R.C.S.  
Pollard, A. G., B.Sc., A.R.C.S.  
Farmer, E. H., D.Sc., D.I.C.

Linstead, R. P., D.Sc., A.R.C.S.,  
D.I.C.

Theobald, L. S., M.Sc., A.R.C.S.  
Emeléus, H. J., D.Sc., A.R.C.S.,  
D.I.C.

Asst. Lectrs. :

Purcell, R. H., Ph.D., A.R.C.S.  
King, A., B.Sc., A.R.C.S., D.I.C.

.....  
Pearson, T. G., M.Sc., Ph.D.  
Stewart, K., B.Sc., Ph.D.,  
A.R.C.S., D.I.C. Demr.  
Cook, A. H., B.Sc., Ph.D.,  
A.R.C.S., D.I.C. Demr.

*Engineering, Chemical*

The Prof. of Engineering.  
The Prof. of Chemical Technology.  
Ure, S. G. M., M.A., B.Sc. Glas.  
Asst. Prof. and Univ.  
Reader.

Newitt, D. M., M.C., D.Sc.,  
D.I.C., A.R.C.S.  
Asst. Prof. and Univ.  
Reader.  
Saunders, O. A., M.A., M.Sc.  
Asst. Prof. and Cloth-  
workers' Reader in  
Thermodynamics.

Lecturers :

Himus, G. W., Ph.D., D.I.C.,  
A.R.C.S.  
Bailey, F. J., M.Sc. Durh., D.I.C.

*Engineering, Civil, and Surveying*

Pippard, A. J. S., M.B.E., D.Sc.,  
M.Inst.C.E., M.Amer.Soc.C.E.  
Prof. and Hd. of Dept.  
Clements, R. G. H., M.C.,  
M.Inst.C.E.  
(Highway Eng.) Prof.  
Rice-Oxley, K., A.C.G.I., M.I.  
Struc.E.  
Asst. Prof. and Univ. Reader.  
White, C. M., B.Sc., Ph.D.  
Asst. Prof. and Univ. Reader.

Lecturers :

Shearer, W. V., B.Sc., Wh.Sch.,  
M.I.Mech.E.  
Manton, B. G., B.Sc.



Asst. Lectrs. :  
 Yates, A., B.Sc.  
 Chilton, O. H., M.Sc., A.C.G.I.,  
 D.I.C.  
 Sparkes, S. R., M.Sc., D.I.C.  
 Marshall, W. T., B.Sc., A.C.G.I.,  
 D.I.C.  
 Stephenson, A., M.A.  
 Chitty, Miss L., M.A., D.I.C.,  
 F.R.Ae.S. Research Asst.

*Engineering, Electrical*

Fortescue, C. L., O.B.E., M.A.  
 Camb., M.Inst.C.E., M.I.E.E.  
 Prof.  
 Rushton, A., M.Sc. (Tech.) Manc.,  
 M.I.E.E.  
 Asst. Prof. and Univ. Reader.  
 Lecturers:  
 Sims, J. W., M.I.E.E., M.I.Mech.E.  
 Hopkin, D. W.  
 Urwin, C. R., A.C.G.I.  
 Taylor, E. O., B.Sc., A.C.G.I.,  
 D.I.C.  
 Hughes, L. E. C., Ph.D., A.C.G.I.,  
 D.I.C.

.....

Asst. Lectrs. :  
 Park, H. E.  
 Melio, L. G., B.Sc., A.R.C.S.  
 L'Ombraïn, G. L., Ph.D., A.C.G.I.,  
 D.I.C.  
 Ward, E. E., B.Sc. Birm.  
 Rissik, H., B.Sc. Glas.  
 Tombs, D. M., M.Sc., A.C.G.I.  
 Demrs. :  
 Rutenberg, D., B.Sc.  
 Mole, J. H., B.Sc., A.C.G.I., also  
 Research Asst.

*Engineering, Mechanical, and  
 Motive Power*

Lander, C. H., C.B.E., D.Sc.,  
 M.Inst.C.E., M.I.Mech.E.  
 Prof. and Hd. of Dept.  
 Wittchell, E. F. D., B.Sc., F.C.G.I.,  
 M.I.Mech.E. Prof.  
 Howard, J. V., D.Sc., M.I.Mech.E.  
 Asst. Prof. and Univ. Reader.

Smith, S. L., D.Sc., A.C.G.I.,  
 M.I.Mech.E.  
 Asst. Prof. and Univ. Reader.  
 Cruickshank, A., M.I.Mech.E.  
 Asst. Prof.  
 Saunders, O. A., M.A., M.Sc. (Ther-  
 modynamics)  
 Asst. Prof. and Clothworkers'  
 Reader.  
 Fishenden, Margaret, D.Sc.,  
 F.Inst.P. Hon. Lectr.

Lectrs. and Instrs. (E. Design  
 and Appl. Mechs.) :

Lewitt, E. H., B.Sc.  
 Cawley, G. M.  
 Dyson, F., B.Sc., A.C.G.I.  
 Collins, W., B.Sc., A.C.G.I.  
 Glaister, E., M.Sc., A.C.G.I.,  
 D.I.C.  
 Heywood, H., M.Sc., Ph.D.,  
 A.C.G.I.  
 Beal, A. E., A.R.C.S. Asst. Lectr.  
 James, J. W., B.Sc., A.C.G.I.  
 Asst. Lectr.  
 Chalk, J. T., B.Sc., M.I.Struct.E.  
 Instr. and Demr.  
 Treharne, T. L. G., B.Sc., A.C.G.I.  
 Inst. and Demr.  
 McCaig, M., M.Sc. Research Asst.

*Entomology, v. Zoology*

*Fuel, v. Chemical Technology*

*Geology, v. also Oil Technol.*

Boswell, P. G. H., O.B.E., D.Sc.,  
 A.R.C.S., D.I.C., M.Inst.M.M.,  
 F.G.S., F.R.S.  
 Prof. and Hd. of Dept.  
 Asst. Profs. and Univ. Readers :  
 Brammall, A., D.Sc., Ph.D., D.I.C.  
 A.Inst.M.M. (Petrology).  
 Jones, W. R., D.Sc., D.I.C.,  
 M.Inst.M.M. (Mining. Geol.).  
 Edge, A. B. Broughton, B.Sc.,  
 A.R.C.S., A.R.S.M., D.I.C.,  
 M.Inst.M.M. Hon. Lectr.  
 Williams, D., B.Eng. Liv., M.Sc.,  
 Ph.D., A.Inst. M.M. (Appl.  
 Geophysics) Lectr.

# IMPERIAL COLLEGE OF SCIENCE & TECHNOLOGY 167

## Asst. Lectrs. :

Slater, G., D.Sc., A.R.C.S., D.I.C.  
Blyth, F. G. H., M.Sc., A.C.G.I.,  
D.I.C.

Shackleton, R. M., B.Sc., Ph.D.  
Liv.

Wood, A., M.Sc. Liv., Ph.D.

## Demrs. :

Leech, J. G. C., A.R.S.M., D.I.C.,  
A.Inst.M.M.

Coomber, S. E., B.Sc., A.R.S.M.

Harper, J. C., B.Sc., A.R.C.S.

Walls, R., M.Sc. Liv.

Museum Asst.

## *Mathematics and Mechanics*

Chapman, S., M.A. Camb., D.Sc.  
Vict., F.R.S. Chief Prof.

Levy, H., D.Sc. Ox., M.A., B.Sc.  
Edin. Prof.

Odell, W. L., A.R.C.S. (to 30.9.38)  
Asst. Prof.

## Asst. Profs. and Univ. Readers:

Bickley, W. G., D.Sc.

Penney, W. G., M.A. Wisc., Ph.D.  
Lond. and Camb., D.Sc.

## Lecturers :

Milner, L. G., A.R.C.S.

Dickson, T. W., M.C., B.A. Ox.

Harvey, J., B.Sc., A.R.C.S.

Kebby, C. H., M.Sc., A.R.C.S.

Reeve, W.

Price, A. T., M.Sc.

Ehrenborg, G. B., M.A.

## Asst. Lectrs. :

Turton, F. J., B.Sc., A.R.C.S.,  
D.I.C.

Hatley, A. J., M.A.

Roth, L., M.A.

Young, Miss R. C. H., Ph.D.

Schmidt, R. J., Ph.D.

## Demrs. :

Preidel, E. E., M.Sc.

Hirst, Miss D. M., M.A.

Young, L. C., M.A.

Kynch, E. J., B.Sc., A.R.C.S.

Goch, D. C., B.Sc. S. Afr.

Research Asst.

## *Metallurgy*

Carpenter, Sir H. C. Harold, M.A.  
Ox., Ph.D. Leip., D.Sc. Wales,

D.Met. Sheff., A.R.S.M.,

M.Inst.M.M., F.R.S. Prof.

Dannatt, C. W., A.R.S.M., D.I.C.,  
F.I.C., A.Inst.M.M.

Asst. Prof. and Univ. Reader.

Chapple, H. M., A.R.S.M.

Senr. Lectr.

## Lecturers :

Fisher, M. S., D.Sc., Ph.D.,  
A.Inst.M.M.

Robertson, J. M., D.Sc., Ph.D.,  
A.R.T.C.

Yeoman, E. W., M.Sc., A.R.S.M.,  
A.R.C.S., D.I.C., F.I.C.

Pearse, L. E. B., A.R.S.M.,  
M.Inst.M.M., F.I.C., F.G.S.

## *Meteorology, v. Physics*

## *Mineralogy, v. Geol.*

## *Mining, v. also Geol.*

Ritson, J. A. S., D.S.O., M.C.,  
O.B.E., T.D., B.Sc. Durh.,

M.Inst.M.M. Prof.

Holman, B. W., O.B.E., A.R.S.M.,  
M.Inst.M.M.

Asst. Prof. and Univ.  
Reader.

Sillick, W. E. G., A.R.C.S., D.I.C.  
Asst. Prof.

## Lecturers :

Webb, A. H., M.Inst.M.M.

Davies, W., B.Sc. Wales, Ph.D.  
Leeds

Faulkner, H. W., B.A. Camb.,  
A.R.S.M., M.I.M.M.

## Asst. Lectrs. :

Tweed, W. S., A.R.C.S., D.I.C.

Wilson, W. H., M.Sc., A.R.S.M.,  
A.I.M.M.

## *Oil Technology*

Illing, V. C., M.A. Camb.,  
M.I.M.M., M.I.P.T. Prof.

Wolf, A. Lectr.

- Pálæontology*, v. Geol.  
*Petrology*, v. Geol.  
*Physics*  
 Thomson, G. P., M.A. Camb.,  
 F.R.S.  
 Prof. and Director of  
 Labs.  
 Pollard, A. F. C., A.R.C.S.,  
 F.Inst.P.  
 (Instrument Design  
 (Mech.)) Prof.  
 Brunt, D., M.A. Camb., B.Sc.  
 (Meteorol.) Prof.  
 Asst. Profs. and Univ. Readers :  
 Dingle, H., D.Sc., A.R.C.S., D.I.C.  
 (Astrophysics).  
 Gregory, H. S., Ph.D., A.R.C.S.,  
 D.I.C.  
 Martin, L. C., D.Sc., A.R.C.S.,  
 D.I.C. (Tech. Optics).  
 Jevons, W., D.Sc., A.R.C.S.,  
 D.I.C. Hon. Lectr.  
 Archer, C. T., M.Sc., A.R.C.S.,  
 D.I.C. Senr. Lectr.  
 Lecturers :  
 Brinkworth, J. H., D.Sc., A.R.C.S.,  
 D.I.C.  
 Green, S. E., Ph.D., A.R.C.S.,  
 D.I.C.  
 Wright, W. D., D.Sc., Ph.D.,  
 A.R.C.S., D.I.C. (Tech. Optics).  
 Moon, P. B., M.A., Ph.D. Camb.  
 Pearse, R. W. B., Ph.D., A.R.C.S.,  
 D.I.C.  
 Wynn-Williams, C. E., Ph.D.  
 Camb., M.Sc. Wales.  
 Bruckshaw, J. McG., M.Sc., Ph.D.,  
 D.I.C.  
 Asst. Lectrs. :  
 Johnson, B. K., D.I.C.  
 Stephens, R. W. B., B.Sc., Ph.D.,  
 A.R.C.S., D.I.C.  
 Blackman, M., M.Sc. S. Afr.,  
 Ph.D. Gött. and Lond.  
 Johnson, B. K., D.I.C. (Tech.  
 Optics).  
 Demrs. :  
 Waters, K. H., B.Sc., A.R.C.S.,  
 D.I.C.
- Cochrane, W., M.A., Ph.D.  
 Saxton, J. A., B.Sc., A.R.C.S.  
 Garton, W. R. S., B.Sc., A.R.C.S.  
*Refractory Materials and Sili-  
 cates*, v. Chemical Technol.  
*Zoology and Applied Entomology*  
 Munro, J. W., M.A. Ox., D.Sc.  
 Edin. Prof.  
 Hewer, H. R., M.Sc., A.R.C.S.,  
 D.I.C.  
 Asst. Prof. and Univ. Reader.  
 Richards, O. W., M.A., D.Sc. Ox.  
 Reader.  
 Dennell, R., M.Sc. Manc.  
 Asst. Lectr.  
 Hocking, K. S., B.Sc., A.R.C.S.  
 Demr.  
 Potter, Mrs. Edith M., Ph.D.,  
 D.I.C. Demr.  
 Fraenkel, G., Ph.D. Gott.  
 Research Asst.
- Research Institute in Plant  
 Physiology**  
 Blackman, Prof. V. H., M.A.,  
 Sc.D. Camb., F.R.S.  
 Director.  
 Gregory, Prof. F. G., D.Sc., D.I.C.  
 Asst. Director.
- Research Staff :**  
 Bolas, B. D., D.Sc., D.I.C.  
 Richards, F. J., B.Sc.  
 Archbold, Miss H. K., D.Sc.  
 Purvis, Miss O. N., Ph.D.  
 Pearse, H. L., Ph.D.
- Biological Field Station, Slough**  
 Munro, Prof. J. W., M.A. Ox.,  
 D.Sc. Edin. Director.  
**Research Staff :**  
 Page, A. B. P., Ph.D., A.R.C.S.  
 Herford, G. V. B., M.A. Ox., M.Sc.  
 Potter, C., M.Sc., Ph.D., D.I.C.  
 Lubatti, O. F., M.Sc., D.Chem.  
 Turin, D.I.C.
- Huxley Lecturer**  
 1939—.....

## GENERAL INFORMATION

Founded by Royal Charter in 1907 for the purpose of giving the highest specialized instruction and providing the fullest equipment for the most advanced training and research in various branches of Science, especially in its application to Industry, the Imperial College includes as integral parts the following Associated Colleges with the departments and (in brackets) sub-departments attached to them :

**ROYAL COLLEGE OF SCIENCE:** Biology (Botany, Bio-Chemistry, Plant Physiology, Plant Pathology, Bacteriology), Chemical Technology (Fuel and Refractory Materials, Electro-Chemistry), Chemistry (Inorganic, Organic, and Physical), Geology (Mining Geology, Oil Technology), Mathematics and Mechanics, Physics (Astrophysics, Technical Optics, Instrument Design, Applied Geophysics, Meteorology), Zoology and Applied Entomology.

**ROYAL SCHOOL OF MINES:** Metallurgy, Mining (Mining Geology), Oil Technology. For Research Laboratory, v. App. III. p. 907.

**CITY AND GUILDS COLLEGE:** Aeronautics (Aerodynamics), Engineering—Chemical, Civil and Surveying (Highways), Electrical, Mechanical and Motive Power.

The total staff exceeds 200. The College is a School of the University in Science and Engineering. Students who are registered as candidates for one of the Associateships, and who have matriculated at the Univ. of London by examn. or exemption, are eligible for the B.Sc. Degree of the Univ., in the Facs. of Sci. or Eng., on the examns. for the relative Associateship, if the Univ.'s regns. are complied with. The buildings occupy about 8 acres and cost with equipment over £1,000,000.

The courses of study are designed for students of Univ. standard whose vocations will be concerned with the scientific aspects of industries.

**ADMINISTRATION.** The administration of the Imperial College is vested in a Governing Body consisting of 47 members representing the Crown, the Indian Empire, the self-governing Dominions, the Board of Education, the University of London, the London County Council, the City and Guilds of London Institute, the Royal Commissioners for the Exhibition of 1851, the Royal Society, the Professorial Staff of the Imperial College, and learned societies concerned with industries. The Rector, as chief administrative officer of the Imperial College, for the time being, is also a member.

**LIBRARIES, ETC.** The Library of the Science Museum is available for the use of Students, and each Dept. is provided with a special Library, Research Laboratories, and full facilities for advanced study.

**SPECIAL RESEARCH DEPARTMENTS.** The Research Institute in Plant Physiology was established in 1913 at the College. For staff, v. *supra*, v. also Appendix III. A.I.a.

The Biological Field Station at Hurworth, Slough, Bucks, was established in 1929, and is under the direction of the Professor of Zoology and Applied Entomology. The facilities available at the station are also used by other departments. For staff, v. *supra*, v. also Appendix III. A.I.f.

**ADMISSION.** The conditions of admission are as under, but the College reserves power to admit in special cases candidates whose qualifications do not in every respect coincide with those prescribed, but whose previous training fits them to take full advantage of the course proposed ; the prescribed qualifi-

cations give no right to admission, but will be considered with others of which the candidate may give evidence. For Admission to 1st yr. candidates must either pass the September Entrance Exam. in Maths. and Mechanics, Chem., Physics, English, and one of French and German, or an accepted equivalent examn., e.g. Matricn. of the Univ. of London, in English, French, Chemistry, Electricity and Magnetism, and Elementary Maths. would exempt from all subjects of the College Examn., excepting Maths. and Mechanics. More advanced Maths. and elementary Mechanics of the Matricn. Examn. would exempt from the College papers in Maths. and Mechanics. Candidates desiring to be admitted direct to the 2nd yr. must take the higher or B papers of the Entrance Examn. in Maths., Mechanics, Chem., and Physics; these papers may also be taken for Intermed. B.Sc. of London in the case of matriculated candidates. Candidates for the Engineering College must take Machine Drawing in addition, and, if matriculated candidates, may thus qualify for the Intermed. B.Sc. in Engineering. The normal age of admission is 17 years or over.

**DIPLOMA AND OTHER COURSES.** The undergraduate courses extend over 3 or 4 yrs. and lead up to an Associateship (A.R.C.S., A.R.S.M., A.C.G.I.), and, in the case of matriculated students, to the B.Sc. (Special) or B.Sc. (Engineering), as the case may be. The Associateship and the Degree are awarded on the same examns. The post-graduate courses and research lead up to the Diploma of Membership of the Imperial College (D.I.C.), and to the higher Degrees of the Univ. of London. Special courses are arranged for graduates and persons engaged in scientific industrial pursuits.

**FEES.** Entrance, £2; Tuition, per session, for full-time undergraduate students, £60 (including Union fees); for less than full-time, at the rate of £63 per session; for post-graduate students at the R.C.S. and R.S.M., £30, at the C. and G. Coll., £60. An additional charge may be made for expensive apparatus or chemicals.

**SCHOLARSHIPS** for post-grad. work: Beit Fellowships for Research, v. Appendix II. 15 and 17; Plimmer Fellowship in Pathology, approx. £230; £100 in Botany; and many others (v. *Calendar*).

**AFFILIATION, ETC.** The Univ. of Sheffield is associated with the Coll. for Advanced Studies in the Metallurgy of Iron and Steel. Students of Huddersfield Technical Coll. may be admitted, subject to certain conditions, without examn.

**APPOINTMENTS BOARD.** The College Appointments Board assists Associates and Members of the College to find employment on the completion of their College courses.

**HOSTEL.** There is a residential hostel at the College, with accommodation for 100 students, at a cost of about 39s. to 47s. per week. Applications for admission should be addressed to the Warden (A. A. Eldridge, B.Sc., F.I.C.).

**STUDENTS' UNION.** The Imperial College Union building in Prince Consort Road is the home of the various student organisations, including the Imperial College Union, the Royal College of Science Union, the Royal School of Mines Union, the City and Guilds College Union, and a large number of Societies and Athletic Clubs. There is a College Refectory in the building, and a College Bookstall.

**PUBLICATIONS.** *Annual Report*; *Calendar*, with list of Associates, pubd. by the Coll.

THE YEAR 1936-37

**BENEFACTIONS.** Sundry donors, £3713 for the equipment of a chemical laboratory in the Beit Building; Anglo-Iranian Oil Company, £1000 p.a. for Research in Chemical Technology; Gas Light and Coke Company, £1000 p.a. for Lectureship in the same Dept.; Clothworkers' Company, £750 p.a. for Readership in Applied Thermodynamics.

**NEW BUILDINGS.** Minor Structural improvements in various departments.

**RETIREMENTS.** Prof. V. H. Blackman (Biol.), Prof. C. G. Cullis (Mining Geol.), W. H. Merrett (Metallurgy), W. C. Hancock (Chem. Technol.).

**DEATHS.** H. E. Armstrong, Emeritus Prof. of Chemistry, 1884-1913; T. Mather, Emeritus Prof. of Electrical Engineering, 1885-1922; Miss Margaret Reeks, Technical Artist, 1893-1928.

**STUDENTS.** Full-time: 927, including 276 graduates. Part-time: 88, including 47 graduates. In addition: 83 Research Assistants, and 23 Inter-collegiate students.

**DEGREES OBTAINED.** B.Sc. in Science, 81; in Engineering, 86; higher degrees in Science: Ph.D., 57; M.Sc., 10; D.Sc., 6; higher degrees in Engineering: Ph.D., 6; M.Sc., 11.

**DIPLOMAS GRANTED.** A.R.C.S., 80; A.R.S.M., 20; A.C.G.I., 75; D.I.C., 110. Total, 285.

# QUEEN MARY COLLEGE

(Formerly EAST LONDON COLLEGE)

Founded 1892

Mile End Road, E.1.

Telephone : Advance 3384-5-6.

CHAIRMAN OF THE GOVERNORS—SIR LYNDEN MACASSEY, K.B.E., K.C.

PRINCIPAL—Maj.-Gen. Sir FREDERICK B. MAURICE, K.C.M.G., C.B.,  
LL.D. Camb, D.Lit.

REGISTRAR—J. ELLISON-MACARTNEY.

## TEACHING STAFF

### *Aeronautical Engineering*

Piercy, N. A. V., D.Sc. (Eng.),  
M.I.C.E., M.I.M.E., F.R.Ae.S  
Reader

### *Botany*

Fritsch, F. E., Ph.D. Mun., D.Sc.,  
F.R.S. Prof.  
Haines, F. M., B.Sc., Ph.D. Lectr.  
Newby, H. V., B.Sc. Lectr.  
Godward, Maud B E., M.Sc.,  
Ph.D. Asst.

### *Chemistry*

Partington, J. R., M.B.E., D.Sc.  
Manc. Prof.  
Drew, H. D. K., Ph.D., D.Sc.  
(Organic C.) Reader.  
Jones, D. C., D.Sc. Wales, Ph.D.  
Johns Hopkins Reader.

### Lectrs. :

Patterson, W. H., D.Sc. Manc.  
Bury, F. W., M.Sc. Manc.  
Stratton, Mrs. K., M.Sc.  
Taylor, F. Sherwood, M.A., B.Sc.  
Ox., Ph.D.  
Petrow, V. A., B.Sc., Ph.D.

### *Classics*

Tredennick, G. H. P. P., M.A.  
Camb. Reader.  
Mozley, J. H., M.A. Camb. Lectr.  
Manton, G. R., B.A. Camb. Lectr.

### *Engineering, Civil and Mechanical, v. also Aero. Eng.*

Lamb, E. H., D.S.C., D.Sc. Manc.  
M.I.Mech.E. Prof.  
Wedgwood, G. A., M.Sc. Belf.,  
Wh. Sch., M.I.Mech.E.  
(Mech E.) Reader.  
Higgins, A. L., D.Sc. Belf.,  
A.R.C.S. (Civil E.) Reader.  
Brendel, F. C. L., B.Sc., Ph.D.  
Lectr.  
2 Assts.

### *Engineering, Electrical* [Prof.

MacGregor-Morris, J. T., M.I.E.E.  
John, W. J., B.Sc., A.R.C.S.,  
D.I.C., M.I.E.E. Reader.  
Stoner, C. R., B.Sc. Lectr  
*English Lang. and Lit.*  
Evans, B. Ior, M.A. Prof  
Lectrs. :

Williams, O. T., M.A. Wales.  
Budd, F. E., B.A., Ph.D.  
White, Beatrice M. I., M.A.  
*French Lang. and Lit.*

Dechamps, J., D. ès L. & Ph.  
Liège Prof.  
Rozelaar, L. A., M.A. Lectr  
Halket, Elz. C., M.A. Lectr.  
Denier, Charlotte, L. ès L  
Grenoble Asst.

### *Geography and Geology*

Smith, H. G., B.Sc. Reader.  
Lebon, J. H. G., B.Sc. Lectr.

Mutton, Alice F. A., M.A., Ph.D.	<i>Physics</i>	
Lectr.	Robinson, H. R., Ph.D. Camb.,	
<i>German Lang. and Lit.</i>	D.Sc. Manc., F.R.S.	Prof.
McClean, R. J., M.A., Ph.D.	Ferguson, A., M.A. Wales, D.Sc.	
König.	Lectr.	Asst. Prof.
Gilbert, Mary E., Ph.D. Berlin	Lectrs. :	
Asst.	Calthrop, J. E., M.A. Camb., M.Sc.	
<i>History, Modern</i>	Irons, E. J., B.Sc., Ph.D.	
Clarke, F., M.A. Ox.	Woodall, A. J., B.Sc., Ph.D.	
Prof.	.....	Asst.
Chew, Helena M., M.A., Ph.D.		
Lond.	Lectr.	
<i>Mathematics, Pure and Applied</i>	<i>Spanish</i>	
Le Beau, G. S., M.A. Ox.	Barragán, J. V.	Lectr.
Lectrs. :	<i>Zoology</i>	
Green, S. L., M.Sc.	Grove, A. J., M.A. Camb., D.Sc.	
Soal, S. G., M.A.	Birm.	Reader.*
Cossar, J., B.A., Ph.D. Camb.,	Lectrs. :	
M.A. Edin.	Newell, G. E., B.Sc.	
Piper, R. W., M.Sc.	Forrest, J. E., B.Sc. Edin.	
Leggett, D. M. A., B.A. Camb.	Roper, H. D. G., B.Sc.	Asst.

\* Head of Department.

## GENERAL INFORMATION

Established 1892. Governed by Governors who include the Master and Clerk of the Drapers' Company, and representatives of the L.C.C., the Univ., and the Staff. A School of the Univ. in Arts, Science, and Engin. Students proposing to take the Medical course at the London Hospital are offered special facilities for carrying on their studies for the Prelim. Med. Examn. Special Research LABORATORIES in Physics, Chem., Elec. Engin. Degree courses in Arts, Science, Engin. (including Aeronautical Engin.), and Med. Fees from £22 : 10s. Hall of Residence for men students at South Woodford (Warden : G. R. Manton, B.A.), and Hall of Residence for women at Whipps Cross (Warden : Miss G. A. Burrows) ; residence and board 32s. 6d. and 35s. per week. Union Society. Old Students' Association.

ENTRANCE SCHOLARSHIPS AND EXHIBITIONS. These include five Scholarships (3 for men, 2 for women), value £80 p.a., and four Exhibitions, value £30 p.a., all for 3 yrs., awarded by the Drapers' Company in Feb. of each year on the result of the Inter-Collegiate Scholarships Examn. The Governors award ten College Exhibitions, to cover tuition fees, on the result of the same examn.

PUBLICATIONS. *Calendar*, 1s. post free. *College Magazine*.

## THE YEAR 1936-37

NEW BUILDINGS. A new block to house the Arts Depts. and the Dept. of Zoology in course of erection.

RETIREMENT. Mr. F. T. Cooper (Maths.) after 38 years' service.

STUDENTS. Full-time : 439, including 27 graduates. Part-time : 30, including 27 graduates.

DEGREES OBTAINED. B.A., 27 ; B.Sc., 52 ; M.Sc., 4 ; B.Sc. (Eng.), 20 ; M.Sc. (Eng.), 3 ; Ph.D. (Arts), 2 ; Ph.D. (Sci.), 7.



# BIRKBECK COLLEGE

Founded 1823

Fetter Lane, E.C.4.

Telephone : Holborn 2245 and 5555.

PATRONS—H.M. THE KING ; H.M. THE QUEEN ; H.M. QUEEN MARY.

PRESIDENT OF THE COLLEGE—.....

CHAIRMAN OF THE GOVERNORS—W. L. HICHENS.

PRINCIPAL—GEORGE SENTER, D.Sc., Ph.D., F.I.C.

SECRETARY—G. F. TROUP HORNE, B.A.

LIBRARIAN—M. CLIVE HILDYARD, B.A., Ph.D.

## TEACHING STAFF

### *Botany*

Gwynne-Vaughan, Dame Helen,  
G.B.E., LL.D. Glas., D.Sc.,  
F.L.S. Prof.\*

Steward, F. C., M.Sc., Ph.D.  
Leeds, D.Sc. Reader.

Smith, G. E., M.Sc. Lectr.

Taylor, G., D.Sc. Edin.  
Special Lectr.

Broadhead, Mrs. Q. E., M.Sc.  
Sp. Lectr.

2 Demrs.

### *Chemistry*

Barrow, F., M.Sc. Birm., Ph.D.  
Stras.\*

Wardlaw, W., D.Sc. Durh., F.I.C.  
(Phys. Chem.) Prof.\*

The Principal.

Thorneycroft, F. J., B.Sc. Birm.,  
M.Sc., Ph.D. Lectr.

Ives, D. J. G., B.Sc., Ph.D.,  
A.R.C.S., D.I.C., A.I.C.  
Lectr.

6 Demrs.

### *Classics and Ancient History*

Warmington, E. H., M.A. Camb.  
Prof.\*

Winnington-Ingram, R. P., M.A.  
Camb. Reader.

Walker, W., M.A. Manc., B.Sc.

Lectr

### *Economics*

Wensley, A. J., M.Com. Birm.

Lectr.†

### *English Lang. and Lit.*

Sutherland, J. R., M.A. Aberd.,

B.Litt. Ox. (Lit.) Prof.\*

Daunt, B. Marjorie, Final Eng.

Hons. Ox. (E. Lang.) Reader.

Potter, S. M., B.A. Ox. Lectr.†

### *French Lang. and Lit.*

Tanqueray, F. J., D. ès L. Paris,  
O.A. Prof.\*

Wilson, Claudine I., M.A. Aberd.,  
Ph.D. Reader.

Gould, Mrs. Marjorie, B.A. Lectr.†

Aubry, Alice, L. ès L.

Clermont-Ferrand, Ph.D. Lectr.†

### *Geography*

Taylor, Eva G. R., D.Sc. Prof.\*

Henderson, H. C. K., M.A., B.Sc.  
Glas., Ph.D. Lectr.

O'Dell, A. C., M.Sc. Lectr.

Hanson-Lowe, J. B., B.Sc. Lectr.

### *Geology*

[Reader.\*

Davies, G. MacD., M.Sc., F.G.S.

Spath, L. F., D.Sc., F.G.S. Lectr.†

\* Head of Dept,

† Pt.-time Lectr.

Smithson, F., B.Sc., Ph.D., F.G.S.  
Lectr.†

*German*

Bithell, J., M.A. Manc.  
(to 30.9.38) Reader.\*  
Elston, C. S., M.A. Leeds, B.A.,  
Ph.D. Lectr.†

*History*

[Reader.\*

Jones, Arthur, M.A. Manc.  
Morrell, W. P., M.A. N.Z., D.Phil.  
Ox. Reader.  
Dakin, D., M.A. Camb., Ph.D.  
Lectr.

*Italian*

Crespi, A., D.Lett. Padua Lectr.†

*Law*

Welford, A. W. Baker, M.A.  
Camb.

(Engl. Legal System,  
Common L., Merc. L.)\*†

Richardson, J. B., M.A., LL.B.  
Camb.

(Equity, Conveyancing)  
Lectr.†

Goitein, H., LL.D.  
(English Const. L. and  
Hist.) Lectr.†

Barrett-Lennard, Sir F.  
(Jurispr. and Legal  
Theory, Hist. of Eng. L.)  
Lectr.†

Foster, J. G., M.A. Ox.  
(Criminal L. and Proce-  
dure) Lectr.†

Cohn, E. J., LL.D. Breslau  
(Roman Priv. L.) Lectr.†

\* Head of Dept.

*Mathematics, Pure and Applied*

Smart, E. H., M.A. Camb. Lectr.\*  
Dienes, P., D.Ph. Budapest,  
D. ès Sc. Paris Reader.  
Fox, C., M.A. Camb., D.Sc. Lectr.  
Cooke, R. G., D.Sc. Lectr.  
Walker, W., M.A. Manc., B.Sc.  
Lectr.  
Ball, A. E., B.A. Camb. Lectr.†

*Military Studies*

Mathew-Lannowe, Brig.-Gen.  
E.B., C.M.G., D.S.O. Reader.

*Philosophy, Psychology, and Logic*

Joad, C. E. M., M.A. Ox., D.Lit.  
Lectr.\*†  
Greenwood, T., M.A., L. ès L.  
Paris, O.I.P. (Logic) Lectr.†

*Physics*

Bernal, J. D., M.A. Camb., F.R.S.  
Prof.\*  
Simons, L., D.Sc., F.Inst.P.

Reader.  
Nettleton, H. R., D.Sc. Lectr.  
Braddick, H. J. J., Ph.D. Camb.  
Lectr.  
Siday, R. E., B.Sc. Lectr.  
i Demr.

*Zoology*

Jackson, H. G., D.Sc. Liv. Prof.\*  
Graham, A., M.A., B.Sc. Edin.  
Reader.

Russell, Lilian, B.Sc. Sheff., M.Sc.  
Lectr.  
Fretter, Vera, B.Sc., Ph.D. Lectr.†  
3 Demrs.

† Pt.-time Lectr.

## GENERAL INFORMATION

Founded 1823 by Dr. George Birkbeck "for the purpose of giving education to students in the principles of the Arts they practise, and in the various branches of Science and useful knowledge." A School of the Univ. in Arts and Science for evening and part-time students. Playing Fields (18 acres) at Greenford.

LIBRARY. 36,000 vols., including special Science Departments.

COURSES. Complete courses for degrees in Arts and Science and also in

Laws, for the Academic Diploma in Geography and for the Inst. of Chemistry exams.

**FEES.** Sessional Composition fees, including subscription to Students' Union : Arts and Laws, 1st yr., £10, subsequent yrs., £11. Science (incl. Hons. Geography in both Faculties), 1st yr., £12, subsequent yrs., £13 : 10s. Post-graduate work, evening and part-time, 5-8 gs., whole time, Arts £11, Science £13 : 10s.

**PUBLICATIONS.** *Calendar*, 1s.; *Report* (annual); *Haldane Memorial Lecture*; *Foundation Oration*; *Lodestone*, 6d. (Students, terminally).

## THE YEAR 1936-37

**NEW BUILDINGS AND BENEFACTIONS.** The Court of the Univ. has agreed to provide room for new buildings for the College on the Bloomsbury site on certain conditions. In connexion with the public appeal for funds to provide the new buildings the Univ. Court has allocated a sum of £50,000 out of the grant from the London County Council and a further £10,000 has been contributed by the Court from University moneys; the Pilgrim Trust, £10,000, the National Union of Teachers, £10,000, and the City Corporation, £5000. During the past year the University Grants Committee has promised to contribute £10,000 and the Middlesex County Council £25,000. Donations have also been received from certain City Companies and private individuals. The amount now available exceeds £160,000.

**CHANGES IN REGULATIONS.** Faculties of Arts and Science: Addition of Military Studies as subject for Intermediate. Faculty of Arts: Music discontinued.

**RETIREMENT.** B. W. Clack (Physics).

**RESIGNATIONS.** Prof. P. M. S. Blackett, F.R.S. (Physics), on appointment to Langworthy Professorship of Physics, Univ. of Manchester. Prof. S. Sugden, F.R.S. (Phys. Chem.), on appointment to Chair of Chem., University Coll., London. J. A. Kitching (Zool.), on appointment to Lectureship, Univ. of Edinburgh. H. A. Matthews (Geog.), on appointment to Lectureship, Bedford Coll., London. Gordon Jacob (Music). J. H. A. Sparrow (Hist. and Outlines of Roman Private Law).

**STUDENTS.** Part-time : 1051, including 362 graduates.

**DEGREES OBTAINED.** B.A., 33; M.A., 5; LL.B., 1; B.Sc., 39; M.Sc., 2; D.Sc., 1; Ph.D. (Arts), 5; Ph.D. (Sci.), 4.

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LIBRARIAN—W. C. DICKINSON, M.A. St. And., D.Lit.

## TEACHING STAFF

<i>Accountancy</i>		<i>Commerce and Industry</i> , v. also	
Rowland, S. W., LL.B., F.C.A.		Law, Transport	
	Lectr.	Condliffe, J. B., M.A., D.Sc. N.Z.	Prof.
<i>Anthropology, Social</i>		Benham, F. C. C., B.Sc. (Econ.),	
Malinowski, B., Ph.D. Cracow,	Prof.	Ph.D.	Cassel Reader.
D.Sc.		Anstey, Vera, D.Sc. (Econ.)	
Firth, R. W., M.A. N.Z., Ph.D.	Reader.	Cassel Lectr.	
1 Asst. Lectr.		Schwartz, G. L., B.A., B.Sc.	
		(Econ.)	
<i>Banking and Currency</i>		Paish, F. W., B.A. Camb.	
Gregory, T. E., D.Sc. (Econ.)	Cassel Prof.	Cassel Lectr.	
Whale, P. B., M.Com. Birm., B.Sc.	Reader.	2 Asst. Lectrs.	
(Econ.)		<i>Economics</i> , v. also Russian	
1 Asst. Lectr.		Instns. and Econ.	
<i>Belgian Studies and Institutions</i>		Robbins, L., M.A. Ox., B.Sc.	
Cammaerts, E., C.B.E., LL.D.		(Econ.)	
Glas.	Prof.	Prof.	
<i>Business Administration</i>		von Hayek, F. A., Dr. Jur., Dr. Sc.	
Plant, A., B.Sc. (Econ.), B.Com.	Cassel Prof.	Pol. Vienna	
		Tooke Prof.	
Wilson, P. A., B.A. Ox.	Lectr.	Durbin, E. F. M., B.A. Ox.	
1 Asst. Lectr.		Ph.D.	
<i>Colonial Administration</i> [Lectr.		Lectr.	
Mair, Lucy P., M.A. Camb., Ph.D.		Bonn, M., Dr. Sc. Pol. Munich (S).	
		3 Asst. Lectrs.	
		<i>English</i> (as a foreign language)	
		Abercrombie, D., B.A. Leeds	
		Asst. Lectr.	

- Ethnology*, v. Anthropology  
*Finance*, v. Banking  
*French*, v. Modern Languages  
*French History and Institutions*  
 Vaucher, P., D. ès L. Paris Prof.  
*Geography*, v. also Commerce  
 Jones, L. Rodwell, B.Sc., Ph.D.  
 Prof.  
 Stamp, L. D., B.A., D.Sc.  
 (Econ. Geog.) Reader.  
 Ormsby, Hilda R. (Mrs.), D.Sc.  
 (Econ.) Reader.  
 East, W. G., M.A. Camb. Lectr.  
 Beaver, S. H., M.A. Lectr.  
*German*, v. Modern Languages  
*History, Economic*, v. also Politics  
 Tawney, R. H., B.A. Ox., Litt.D.  
 Manc. Prof.  
 Power, Eileen E. Le P., Litt.D.  
 Manc., M.A., D.Lit. Prof.  
 Beales, H. L., M.A. Manc. Reader.  
 Judges, A. V., B.A. Lectr.  
 1 Asst. Lectr.  
*International History*  
 Toynbee, A. J., B.A. Ox.  
 Stevenson Research Prof.  
 Webster, C. K., M.A., Litt.D.  
 Camb., F.B.A.  
 Stevenson Prof.  
 Robinson, L. G., M.A. Ox. Reader.  
*International Relations*  
 Manning, C. A. W., M.A., B.C.L.  
 Ox. Montague Burton Prof.  
 Bailey, S. H., M.A. Camb. Lectr.  
*Law*, v. also p. 218  
 Allemès, F., L. ès L. Lille (Code  
 Civil) (S).  
*Logic, Psychology, and Philo-  
 sophy*  
 Wolf, A., M.A. Camb., D.Lit.  
 (Logic and Scientific  
 Method) Prof.  
 1 Asst. Lectr.  
 Lectrs. on Industrial Psychology:  
 Bevington, Sheila, B.Sc. (Econ.),  
 Ph D. (S).  
 Myers, C. S., C.B.E., M.A., M.D.,  
 Sc.D. Camb., L.R.C.P.,  
 M.R.C.S., F.R.S. (S).  
 Smith, May, M.A. Manc., D.Sc. (S).  
 Emmet, G. N., B.A. Camb. (S).  
*Modern Languages*  
 Rose, W., M.A. Birm., Ph.D.  
 (German) Reader.  
 Pickles, W., M.A. Leeds.  
 (French) Lectr.  
 5 Asst. Lectrs., 3 Assts.  
*Politics and Public Administra-  
 tion*  
 Laski, H. J., M.A. Ox. Prof.  
 Lees-Smith, Rt. Hon. H. B., M.A.  
 Ox., D.Sc. (Econ.), M.P.  
 (Pub. Admn.) Reader.  
 Finer, H., D.Sc. (Econ.)  
 (Pub. Admn.) Reader.  
 Smellie, K. B., B.A. Camb.  
 (Pub. Admn.) Lectr.  
 Greaves, H. R. G., B.Sc. (Econ.)  
 Lectr.  
 2 Asst. Lectrs.  
*Russian Institutions and Eco-  
 nomics*  
 Turin, S. P., D.Sc. (S).  
*Shipping*, v. Transport  
*Social Science and Administration*  
 Lloyd, C. M., M.A. Ox.  
 Head of Dept.  
 Eckhard, Edith V., M.A. Camb.  
 Senior Tutor.  
 Hart, B., M.D., F.R.C.P., M.R.C.S.  
 (Psychiatry) (S).  
 3 Tutors, 4 Assts.  
 Lectrs. for Course in Mental  
 Health:  
 Burt, Prof. Cyril, M.A., D.Sc. Ox.  
 (S).  
 Fildes, Lucy G., B.A., Ph.D. (S).  
 Lewis, Aubrey, M.D., M.R.C.P.  
 (S).

(S)=Special Lectr., not on the School Staff.

Methven, J. C. W., M.R.C.S., M.R.C.P. (S).	Mannheim, K., Ph.D. Budapest. Lectr.
Moodie, W., M.D., Ch.B. St. And., F.R.C.P., D.P.M. (S).	<i>Statistics</i> Rhodes, E. C., B.A. Camb., D.Sc. Head of Dept., Reader.
Pritchard, E. A. Blake, M.A., M.D. Camb., M.R.C.P. (S).	Allen, R. G. D., M.A. Camb., Lectr.
Tredgold, A. F., M.D. Durh., F.R.C.P., M.R.C.S. (S).	Brown, F., B.Sc. (Econ.) Lectr. 1 Asst. Lectr.
Wilson, Isobel, M.D., D.P.M. (S).	<i>Transport</i> , v. also Commerce and Law
<i>Sociology</i> , v. also Anthropology	
Ginsberg, M., M.A., D.Lit. Martin White Prof.	Stephenson, W. Tetley, M.A. Camb. Cassel Reader.
Marshall, T. H., M.A. Camb. Reader.	Ponsonby, G. J., M.A. Camb. Lectr. Shanahan, E. W., D.Sc. (Econ.) (S).

(S) = Special Lectr., not on the School Staff.

## GENERAL INFORMATION

Founded 1895. A School of the Univ. recognized in the Faculties of Economics and Political Science (including Commerce and Industry), of Laws, and of Arts (in History, Geography, Sociology, and Anthropology).

Matriculated students are registered as Internal students of the Univ. with a view to the B.Sc. Econ., B.Com., LL.B., and B.A. (with Honours in Geog., Sociology, Anthropol., or History, or the General degree with Geog.), or to Higher degrees. Non-matriculated students can be registered for the Academic Diplomas in Geography and Public Administration, and for the School Certificates in Social Science, in Mental Health, and in International Studies. Post-graduate students may take the Academic Diplomas in Psychology, and Sociology and Social Administration.

The lectures and classes at the School are open also, under certain conditions, to those who have not matriculated and do not wish to pursue a full Univ. course—in particular to those engaged in banking, accounting, railway and other transport, commerce and industry, to civil servants and municipal officials, to teachers, and to those engaged in or qualifying for social work. To all these the School affords the opportunity of specialized or advanced study on particular topics. The School is open on the same terms to men and to women. Classes and lectures are given both in the day and in the evening.

The School offers special facilities for post-graduate research, under the supervision of professors or otherwise. The *British Library of Political and Economic Science*, which includes the British Library of *Political Science*, the Edward Fry Library of *International Law*, and the Schuster Library of *Comparative Legislation*, also contains a number of special collections, such as the Acworth collection on Transport, the Hutchinson collection of works in all languages for and against Socialism, and other collections on Trade Unionism, Local Government, and Public Administration. The Library is open not only to those who are taking courses at the School, but, by permission of the Director, also to any person desiring to utilize it for research or consultation.

The fee for a complete day course in Economics or Commerce, spread over 3 or 4 years, is 78 guineas; in Law the day fee is 28 guineas a year, and in Arts about £35 a year. In the case of evening students considerable reductions in these fees are made. The fees include privileges of Students' Common Rooms

and Athletic Societies. Playing fields at Malden are available for members of the Students' Union.

Scholarships are awarded on the results of the University Intermediate Exams. There are entrance scholarships, bursaries, and valuable prizes. Two Research Studentships for Evening Students (equivalent to a remission of fees) open to grads. of the School. For open postgrad. Studentships, v. Appendix II. 9.

Publications: *Studies in Econ. and Pol. Sc.*; *Economica*, 15s. per annum, single copy 4s. 6d. *Politica*, 12s. per annum, single copy 3s. 6d., joint ann. subsn. 25s.; *The Annual Survey of English Law*, an annual bulletin of developments in English legislation, case-law, and legal literature, 10s. 6d.; *Annual Digest of Public International Law Cases*, about 35s.; *Clare Market Review* (Students, usually twice a term). *Bulletin*—with supplements—of the *London and Cambridge Economic Service* of Statistics and Memoranda, bearing on the current economic position, is published at the School, in co-operation with the Univ. of Cambridge and Harvard Univ., subs. £6 p.a. *School Calendar*, 2s. 6d. or (cloth) 3s. 6d. *Departmental pamphlets* free.

## THE YEAR 1936-37

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. M. Bonn (formerly of Handelshochschule, Berlin) and Prof. K. Mannheim (formerly of the Univ. of Frankfurt) worked at the school as visiting professors.

LECTURES. Series of public lectures were given on *The International Problem of Peaceful Change*, *Current Problems of Business Administration*, and *Experiments in Public Administration in Great Britain*. Other lectures were given by Sir Montague Barlow, Dr. Rudolf Olden, Prof. M. Leroy (Paris), Prof. C. Szladits (Budapest), Prof. E. F. Hecksher (Stockholm), Sir Claud Schuster, Prof. D. H. Macgregor (Oxford), Prof. C. Bouglé (Paris) and members of the School Staff.

RESIGNATIONS. Sir William H. Beveridge, K.C.B., Director of the School 1919-1937, on appointment as Master of University College, Oxford; Dr. H. V. Routh (English), on appointment as Byron Prof. of English Lit. and Instns. (Athens); Prof. L. Hogben, on appointment as Regius Prof. of Natural Hist. (Aberdeen); R. M. Shone (Business Administration), for technical appointment.

STUDENTS. Registered students, 3000, including 827 registered for first degrees, and 964 occasional students.

DEGREES OBTAINED. B.A., 8; B.Com., 41; B.Sc. (Econ.), 95; LL.B., 17; M.A., 5; M.Sc. (Econ.), 20; Ph.D., 14.

# SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE, KENT

Founded 1894

Telegrams : College, Wye. Stations : Ashford (S.R.), 5 m., Wye (S.R.)  $\frac{1}{2}$  m.  
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CHAIRMAN OF GOVERNING BODY—EDWARD HARDY, J.P.

PRINCIPAL—R. M. WILSON, B.Sc. (Agric.).

SECRETARY AND BURSAR—A. H. BIRD, M.A. Ox., Dip. Hort. (Wye).

## TEACHING, AND RESEARCH AND ADVISORY STAFF

### *Agriculture*

The Principal.

Vickers, V. R. S., Vice-Principal.

Fishwick, V. C., P.A.S.I., N.D.A.,  
N.D.D.

Bryant, D. M., B.Sc. (Agric.),  
Ph.D.

Tinley, N. L., N.D.A., Dip. Agr.  
(Wye).

Hewison, N. V., Farm Manager.

### *Agr. Engineering*

Davies, C., T.D.A.

Smyth-Homewood, G. R. B., Dip.  
Agr. (Wye).

Martin, A. G.

Head, R. K.

Blezard, S. E.

### *Botany*

Pearl, R. T., B.Sc., A.R.C.S., D.I.C.

Harrison, R. M., B.Sc., A.R.C.S.

Hunt, I. V., M.Sc.

### *Chemistry*

Harwood, S. D. F., M.A., F.I.C.

Cole, L. W., M.Sc., Dip. Agric.  
(Wye).

Prowse, I. B., B.Sc. (Agric.), Dip.  
Agr. (Wye).

### *Economics*

Wyllie, J., B.Sc. (Agric.), N.D.A.,  
N.D.D.

### *Estate Management*

Bescoby, H. B., P.A.S.I., N.D.A.

Green, N. K., B.Sc. (Agric.),  
P.A.S.I.

### *Fruit-growing and Market Gardening*

Miskin, W.

Hunt, J. L., Dip. Hort. (Wye).

Lamberton, W., N.D.H.

### *Geology and Zoology*

Brade-Birks, S. G., D.Sc.

Austin, M. D.

Rolfe, S. W. H., B.Sc. (Agric.), Dip.  
Agric. (Wye).

### *Poultry*

Rhodes, F. W., D.S.O.

Fermor, C. E.

### *Veterinary Science and Bacteriology*

McEwen, A. D., D.Sc., M.R.C.V.S.

Paterson, J. D., M.R.C.V.S.

## Research and Advisory Staff :

### *Chemistry*

Goodwin, W., M.Sc., Ph.D.

Furneaux, B. S., M.Sc., Dip. Agr.  
(Wye).

Pizer, N. H., M.Sc., F.I.C.

### *Dairy Bacteriology*

Barkworth, H., M.C.

### *Economics*

Wyllie, J., B.Sc. (Agric.), N.D.A.,  
N.D.D.



Jolly, A. L., B.A., M.Sc.  
Halls, H. G.

*Entomology*

Jary, S. G., B.A., Dip. Agric.  
Camb.  
Austin, M. D.

*Mycology and Hops*  
Ware, W. M., D.Sc.  
Burgess, A. H., B.Sc. (Agric.),  
Dip. Agr. (Wye).

*Pig Husbandry*  
Fishwick, V. C., P.A.S.I., N D A.,  
N.D.D.

## GENERAL INFORMATION

Founded 1894. A School of the Univ. in Science (Agric. and Hortic.).

LIBRARY, 4000 vols. LABORATORIES: Chem., Biol., Bact., Mycol., Entom., Vet. Sci., Hop Research.

The College (Residential) provides courses of instruction in Agriculture (British and Colonial) and Horticulture in preparation for the B.Sc. (Agric.), B.Sc. (Hort.), Dip. Agric. (Wye), Dip. Hort. (Wye), N.D.A. Examinations of the Chartered Surveyors' Institution and of the Land Agents' Society. Farms, 585 acres, comprising arable, pasture, orchards, forestry, hop plantations, poultry, glasshouses, and nurseries.

The instruction meets the needs of young men who intend to farm at home or abroad, or desire posts as managers of estates, lecturers, and organizers in agric. and on the agric. staffs of Colonial Govts. The Appointments Bureau gives all possible assistance in placing qualified students in suitable employment. FEES, inclusive for board, lodging, and tuition: British subjects, £150 p.a.; others, £180 p.a. Tuition only—British subjects, £85; others, £115 p.a. Reduced fees for ratepayers of Kent, Surrey, and Sussex.

PUBLICATIONS: *Journal, Prospectus*.

## THE YEAR 1936-37

RETIREMENT. Prof. E. S. Salmon (Mycology).

RESIGNATION. L. E. Hughes (Veterinary Sci.), on appointment to University Coll. of North Wales, Bangor.

STUDENTS. Full-time: 180.

DEGREES OBTAINED. B.Sc. (Agric.), 6; B.Sc. (Hort.), 2.

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Founded 1916

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DIRECTOR—Professor R. L. TURNER, M.C., M.A., Litt.D. Camb.

SECRETARY—G. W. ROSSETTI, M.A. Camb.

## TEACHING STAFF

<i>Acholi</i>	Walker, John, M.A. Glas.
Kitching, Rt. Rev. A. L., M.A.	(and A. Palæog.) Lectr.*
Camb.	
<i>African, Central, Languages</i>	<i>Armenian</i>
Huntingford, G. W. B. Lectr.*	Topalian, S. Lectr.
<i>African Phonetics and Lin-</i>	<i>Assamese and Khasi</i> [Lectr.*
<i>guistics, v. Phonetics and</i>	Gurdon, Lt.-Col. P. R. T., C.S.I.
<i>Linguistics, African</i>	Bhuyan, S. K., M.A. Calc.
	(Assamese) Lectr.*
<i>Amharic, Ethiopic and Galla</i>	<i>Bengali</i>
Athill, Major L. F. I.	..... Reader.
(Amh.) Lectr.*	Chaudhuri, J. B., Ph.D. Lectr.*
Herouy, B. G. Lectr.*	Summers, Gertrude M. Lectr.*
Rey, Lt.-Col. C. F., C.M.G.	
(Amh.) Lectr.*	<i>Burmese</i>
<i>Arabic</i>	Stewart, J. A., C.I.E., M.C., M.A.,
..... Prof.	LL.D. Aberd., I.C.S. Reader
	Dunn, C. W., C.I.E., M.A. Camb.*
Tritton, A. S., M.A. Lond. and Ox.,	Tew, G. C., B.A. Camb.*
D.Litt. Edin. Reader.	
Heyworth-Dunne, J., B.A. Lectr.	<i>Chinese</i>
Gomaa, Sheikh M., B.A.	..... Prof.
(Egyptian A.) Lectr.	
Kadry Zafir, M.A. Camb. Lectr.	Edwards, E. Dora, M.A., D.Lit.
Hillelson, S. (Sudanese A.) Lectr.*	Reader.
Smith, Margaret, M.A. Camb.,	Simon, W., Ph.D. Berlin Lectr.
Ph.D., D.Lit. (Syrian A.)	Chiang, Y. Asst. Lectr.
Lectr.*	Balmer, Janet (Hakka) Lectr.*

\* On panel of additional lectrs., not on regular staff.

Duncan-Whyte, Margaret M.  
(Swatow) Lectr.\*

Elwin, Rosa M.  
(Ningpo & Shanghai) Lectr.\*

MacLagan, Rev. P. J., M.A.,  
D.D., D.Phil. Edin.

(Swatow) Lectr.\*

Steele, Rev. J., M.A., D.Lit.  
(Swatow) Lectr.\*

Winn, Cecel M.  
(Modern C.) Lectr.\*

Wood, A. E., M.A. Ox.  
(Cantonese) Lectr.\*

Waley, A., B.A.  
(C. Poetry) Lectr.\*

*ChiNyanji*

How, Edith A. Lectr.\*

*Epigraphy, Indian*

Ratnasuriya, M. D., Ph.D. Lectr.

*Georgian*

Gugushvili, A. Lectr.\*

*Gujarati*

Kanhere, S. G. Lectr.

Hartshorne, J. F. B., B.A. Ox.  
Lectr.\*

*Hausa*

Bargery, Rev. G. P., D.Lit.  
Reader.

Vischer, Major H., C.M.G., C.B.E.  
Lectr.\*

*Hebrew, Modern*

Wartski, I., B.A. Lectr.

*Hebrew Palæography*

Birbaum, S., D.Phil. Würzb. Lectr.

*Hebrew Philosophy*

Rawidowicz, S., Ph.D. Berlin  
Lectr.\*

*Hindustani*

Bailey, T. G., M.A., B.D., D.Litt.  
Edin. (Urdu & H.) Reader.

Leeson, G. E.  
(Urdu & Hindi) Lectr.

*History and Culture of British  
Dominions in Asia, especially  
India, v. also Sansk.*

Dodwell, H. H., M.A. Ox. Prof.  
Philips, C. H., M.A. Liv. Lectr.

Ratnasuriya, M. D., Ph.D.  
(Indian H.) Lectr.

Garrett, Col. H. L. O.  
(Indian H.) Lectr.\*

Hart, E. G., D.S.O., M.A.  
(Indian H.) Lectr.\*

*History and Literature, Buddhist*

Dauids, Mrs. C. A. Rhys, M.A.,  
D.Lit. Lectr.\*

*History of the Near East*

Toynbee, A. J., B.A. Ox. Lectr.\*

*Indian Archæology*

Richards, F. J., M.A. Ox.  
Hon. Lectr.

*Indian Arts and Crafts*

Codrington, K. de B., M.A.  
Hon. Lectr.

*Indian Philosophy*

Heimann, Betty, Ph.D. Halle  
Lectr.

*Iranian Studies*

Henning, W., D.Phil. Gött. Lectr.

*Islamic Studies*

Ross, Sir E. Denison, C.I.E.,  
Ph.D. Strass., D.Lit. Lectr.\*

*Japanese*

Isemonger, Commdr. N. E., R.N.  
(ret'd.) Lectr.

Yoshitake, S. Lectr.

Simon, W., Ph.D. Berlin Lectr.

Matsukawa, B. Lectr.\*

Mere, G. Lectr.\*

*KiKuyu*

Leakey, L. S. B., M.A., Ph.D.  
Camb. Lectr.\*

*Law*

FitzGerald, S. G. V., M.A. Ox.,  
LL.D. (Indian L.) Lectr.

\* On panel of additional lectrs., not on regular staff.

MacGregor, A., M.A. Edin. (Burmese Buddhist L.) Lectr.*	Butlin, R. T., B.A. Lectr.
<i>Linguistics</i> , v. Phonetics	Firth, J. R., M.A. Leeds. (Linguistics) Lectr.
<i>LuGanda</i>	<i>Phonetics and Linguistics, African</i>
Daniell, Ven. Archdeacon E. S., O.B.E., M.A. Lectr.*	Ward, Ida C., B.Litt. Durh., D.Lit. (Nigerian Dialects) Lectr.
<i>Malay</i>	Tucker, A. N., M.A. Cape T., Ph.D. (Compar. Bantu & Sudan Langs.) Lectr.
Winstedt, Sir Richard O., K.B.E., C.M.G., M.A., D.Litt. Ox. Reader.	Honikman, Beatrice, M.A. Cape T. (Southern Bantu dialects) Lectr.
Owen, G. N. Lectr.*	<i>Polynesian, Melanesian, Micro- nesian, and Papuan</i>
<i>Malay and Old and Medieval Môn</i>	Capell, Rev. A., M.A. Syd. Lectr.*
Blagden, C. O., M.A. Ox., D Litt. Rangoon Lectr.*	Ivens, Rev. W. G., M.A., D.Litt. N.Z., Litt.D. Melb., F.R.A.I. (Melanesian) Lectr.*
<i>Malayalam</i>	<i>Sanskrit</i>
Menon, T. N., B.A. Madras Lectr.*	Turner, R. L., M.C., M.A., Litt.D. Camb. Pt.-time Prof.
<i>Maltese</i>	Barnett, L. D., C.B., M.A. Camb., Litt.D. Vict. (S. & Anc. Indian Hist.) Lectr.
Dessoulevy, Rev. C. L. Lectr.*	Stede, W., Ph.D. Leip. Lectr.
<i>Manchu</i>	Rylands, C. A., M.A. Camb. Lectr.
Simon, W., Ph.D. Berlin Lectr.	Heimann, Betty, Ph.D. Halle Lectr.*
<i>Marathi</i>	Allan, J., M.A. Edin., F.S.A. (Indian Palæog.) Lectr.*
Kanhere, S. G. Lectr.	<i>Sesuto</i> [Lectr.*]
Master, A., C.I.E., B.A. Ox. Lectr.	Stevens-Guille, H. de C., M.A. Ox.
<i>Mongolian</i>	<i>Shan</i>
Yoshitake, S. Lectr.	Inman, Capt. H. J. Lectr.*
<i>Oriya</i>	<i>Siamese</i>
Pike, Rev. H. W., B.A., B.D. Lectr.*	Le May, R. Lectr.*
Wilkins, Rev. G. S. Lectr.*	Michell, J. Lectr.*
<i>Pali</i>	Quaritch-Wales, H. G., M.A. Camb., Ph.D. Lectr.*
Stede, W., Ph.D. Leip. Lectr.	<i>Sindhi</i>
<i>Pashto</i>	Kazi, I. Lectr.*
Bokhary, S. G. A. Lectr.*	
<i>Persian</i>	
Minorsky, V. Prof.	
Dārāb, G. H., Khan, M.A. Lectr.	
Taqizadeh, S. H. Lectr.	
<i>Phonetics and Linguistics</i>	
Lloyd James, A., M.A. Camb. Prof.	

\* On panel of additional lectrs., not on regular staff.

<i>Sinhalese</i>		<i>Turki</i>	
Ratnasuriya, M. D., Ph.D.	Lectr.	Wingate, Rachel, M.A. Camb.	
<i>Swahili</i>			Lectr.*
Ashton, Mrs. Ethel O.	Lectr.	<i>Turkish</i>	
<i>Tamil and Telugu</i>		Ali Riza Bey	Lectr.
Pathy, C. S. K., M.A. Edin.,		Topalian, S.	Lectr.
D. ès L. Montpellier.	Lectr.	<i>Urdu, v. Hindustani</i>	
<i>Tibetan</i>	[Lectr.*	<i>Yoruba</i>	
Shuttleworth, H. Lee, M.A. Ox.		Fadipe, N. A., M.A., B.Sc.	
Simon, W., Ph.D. Berlin	Lectr.		Lectr.*

\* On panel of additional lectrs., not on regular staff.

## GENERAL INFORMATION

Established by Royal Charter, 1916. A School of the University in Arts. The work is concentrated in six Departments: I. India, Burma and Ceylon. II. Far East. III. Near and Middle East. IV. Africa. V. Phonetics and Linguistics. VI. Oriental History and Law. Teaching is provided in many languages and in the history, laws, religions and customs of Oriental and African countries. Special facilities for research work.

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PUBLICATIONS: *Calendar* (Oct.), 1s. 6d.; *Prospectus* (July); *Bulletin*, 15s. per part.

## THE YEAR 1936-37

BENEFACTIONS. Anglo-Iranian Oil Co., Ltd., £3000 spread over 5 years for Persian. N. M. Wadia Charities, Bombay, and Parsee Punchayet Funds and Properties, Bombay, each £100 p.a. for 3 years for Iranian Studies. National Bank of India, £50. Nathan and Adolphe Harndler Charity and others £300 p.a. for 3 years for a Research Lectureship in Hebrew Palæography. The Ottoman Bank, £21.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Mr. K. de B. Codrington lectured on "Indian Sculpture" and "Islamic Art in India," at Oxford and Cambridge. Prof. A. Lloyd James lectured on "Speech Education in Training Colleges" in the University of Wales. Prof. Sir Reginald Johnston lectured on "China and Japan" at Oxford. Mr. R. le May lectured on "Buddhist Art in Siam" at Cambridge. Mr. F. J. Richards lectured on "India: Physics and Politics" at Cambridge. Dr. I. C. Ward, two lectures at the Univ. of Berlin on "Modern English Pronunciation."

RETIREMENT. Sir E. Denison Ross, Director and Professor of Persian.

RESIGNATIONS. Prof. H. A. R. Gibb (Arabic), on appointment to Laudian Chair of Arabic, Univ. of Oxford; Prof. Sir Reginald F. Johnston (Chinese); Miss Jane R. Watt (Marathi).

STUDENTS. Full-time: 96. Part-time: 332.

DEGREES OBTAINED. B.A., 10; M.A., 1; Ph.D., 5; D.Lit., 2.

# BEDFORD COLLEGE FOR WOMEN

Founded 1849

Inner Circle, Regent's Park, N.W.1.

Telephone : Welbeck 5743.

VISITOR—The Most Hon. the MARQUESS OF CREWE, K.G., G.C.V.O., P.C.

CHAIRMAN OF COUNCIL—The Rt. Hon. Sir FRANCIS ACLAND, Bart., M.P.

PRINCIPAL—Miss G. E. M. JEBB, M.A. Camb.

RESIDENT TUTOR—Miss M. A. CULLIS, O.B.E., M.A. Ox.

SECRETARY—Miss O. E. MONKHOUSE, M.B.E., B.A.

REGISTRAR—Miss E. M. E. HAYDON, M.A.

LIBRARIAN—Miss J. A. PATERSON.

## TEACHING STAFF

### *Botany*

Jones, W. Neilson, M.A. Camb.

Hildred Carlile Prof.

Halket, Miss A. C., B.Sc. Lectr.

Garside, S., M.Sc. Manc. Lectr.

1 Pt.-time Demr.

### *Chemistry, Inorganic and Physical*

Spencer, J. F., Ph.D. Bres., D.Sc.

Liv., F.I.C. Prof.

Trew, Miss V. C. G., Ph.D. Lectr.

Hollens, Miss W. R. A., B.Sc.,

Ph.D. Demr.

Wiseman, Miss M. H. C., B.Sc.

Glas. Demr.

### *Chemistry, Organic* [Reader.

Turner, E. E., M.A. Camb., D.Sc.

Lesslie, Miss M. S., M.A., B.Sc.,

Ph.D. St. And. Lectr.

Campbell, Miss I. G. M., B.Sc.,

Ph.D. St. And. Demr.

### *Classics*

Tarrant, Miss D., M.A. Camb.,

M.A., Ph.D. Lond.

(Greek) Prof.

Onians, R. B., M.A. Liv., Ph.D.

Camb.

(Latin) Hildred Carlile Prof.

MacNeice, F. L., M.A. Ox. Lectr.

Andrewes, Miss M., M.A. Lectr.

Tucker, G. M., M.A. Camb.

Lectr.

1 Asst. (part-time).

### *Dutch*

Renier, G. J., Ph.D.

(Dutch Hist. and Instns.

Reader.

Weevers, T., Lit.D. Leiden

(Lang. and Lit.) Reader.

### *Economics, v. Social Studies*

### *English Language and Medieval Lit.*

Thomas, P. G., M.A. Camb.,

Litt.D. Liv. Prof.

Tillotson, Mrs. K. M., B.A.,

B.Litt. Ox. Pt.-time Lectr.

### *English Literature*

Wilson, F. P., M.A., D.Litt. Birm.,

M.A., B.Litt. Ox.

Hildred Carlile Prof.

Ellis-Fermor, Miss U. M., M.A.,

B.Litt. Ox. Reader.

Covernton, Miss A. B., Final Eng.

Hons. Ox. Lectr.

Butt, J. E., M.A., B.Litt. Ox. Lectr.

*French Language and Literature*

Turquet, Mrs. Gladys R., M.A.,  
D.Lit. Prof.

Legros, René P., M.A. Edin. and  
Ox. Reader.

Murray, Miss J., M.A. St. And.,  
D. de l'U. Paris Reader.

Terry, Mrs., M.A. Lectr.

*Geography*

Hosgood, Miss B., B.A. Reader.

Smee, Miss D. K., M.A., Ph.D.  
Lectr.

Timberlake, Miss E. M., B.Sc.  
Lectr.

Matthews, H. A., B.A., Ph.D.  
Lectr.

1 visiting Lectr.

*Geology*

[Reader.

Hawkes, L., D.Sc. Durh., F.G.S.

Dix, Miss E., D.Sc. Wales Lectr.

1 Demr. (part-time).

*German*

[Prof.

Purdie, Miss E., M.A. Liv., D.Lit.

Massey, Miss I. M., Ph.D. Marb.  
Reader.

1 Asst. (pt.-time)

*History, Ancient*

[Reader.

Cary, M., M.A., D.Litt. Ox.

*History, Medieval*

Darlington, R. R., Ph.D. Reading,  
B.A. Reader.

*History, Modern*

Penson, Miss L. M., Ph.D. Prof.

Tooley, Miss M. J., M.A. Lectr.

Greaves, R. W., M.A., D.Phil. Ox.  
Asst

*Italian*

Gutkind, C. S., Dr. phil. Heidel-  
berg Reader.

Jeffery, Miss V. M., M.A., D.Lit.  
Lectr.

*Mathematics*

Hilton, H., M.A., D.Sc. Ox. Prof.

Marshall, J., M.A., D.Sc. St. And.  
Reader.

Fowler, Mrs., Math. Trip. Camb,  
M.A. Pt.-time Lectr.

Weevers, Mrs., M.Sc. Lectr.

*Philosophy*

[Prof

Stebbing, Miss L. S., M.A., D.Lit.

Mace, C. A., M.A. Camb.

(Psychol.) Reader.

Acton, H. B., B.A., D.Phil. Ox.

Lectr.

Folley, Mrs., M.A. Manc.

(Psychol.) Asst.

*Physics*

Wilson, W., Ph.D. Leip., D.Sc.,

F.R.S. Hildred Carlile Prof.

Saltmarsh, Miss M. O., Math. Trip.

and Nat. Sci. Trip. Camb.,

B.A. Dub., Ph.D. Reader.

Cattermole, Miss J., B.Sc., Ph.D.

Demr.

Davies, W. T., M.A. Camb.

Demr.

*Physiology*

Edkins, Mrs., D.Sc. Reader.

Murray, Miss M. M. A., D.Sc.

(Biol. Chem.) Lectr.

Lewis, Miss A. G., B.Sc. Demr.

*Sociology, Social Studies and  
Economics*

Mess, H. A., B.A., Ph.D. Reader.

The Principal (Econ.) Lectr.

Williams, Mrs., B.A. Manc.

(Econ.) Lectr.

Pinchbeck, Miss I., M.A., Ph.D.

Lectr.

Rooff, Miss M. M., B.A. Tutor.

Baggallay, Miss O.

(Public Health) Tutor.

*Zoology*

Boulenger, C. L., M.A. Camb.,

D.Sc. Birm. Prof.

Ince, Miss F. E., M.Sc. Lectr.

Seyd, E. L., M.A., B.Sc. Ox.

Demr.

Murray, P. D. F., M.A. Camb.,

D.Sc. Syd. Demr.

## Stevenson Lecturer

1937, W. A. Robson, LL.M., B.Sc.,  
Ph.D. (London School of  
Econ.). Subject—"A Criti-  
que of London Government."

## Fawcett Lecturer

1937, Dr. Louisa Garrett Ander-  
son, C.B.E., (on her mother)  
"Elizabeth Garrett Anderson  
M.D."

## GENERAL INFORMATION

Founded 1849. A School of the Univ. in Arts and Science. Tate LIBRARY and Wernher Reading-Room contain 55,856 vols. (not including pamphlets). Special facilities for Research work in the LABORATORIES (Bact., Bot., Chem., Geol., Physics, Physiol., Psych., and Zool.).

Minimum age for admission, 18. Students are prepared for all examns. of the Univ. of London in Arts and Science. In Medicine the College is recognized by the Univ. for purposes of the First M.B., and in Chem. and Physiol. for the Second M.B. Examn.

RESIDENTIAL accommodation for 75 students in the Coll., for 89 at Bedford College House (*Warden*—Miss A. E. Lindsell, M.A. Camb. and Dub.), and 63 at Notcutt House (*Warden*—Miss M. S. Crewdson, M.Sc.). FEES (Inclusive Sessional), for tuition: Interm. Arts—42 gs.; B.A.—31 to 38 gs.; M.A.—8½ to 15 gs.; Interm. Science and B.Sc. Pass—53 gs.; B.Sc. Hons.—38 to 53 gs.; M.Sc. and Ph.D.—15 to 21 gs. Residence with board—78 to 99 gs. Union Society—16s.; Athletic Union—26s.

SCHOLARSHIPS for graduates: One (Lady Huggins) in Sociology, awarded from time to time; three for research in Arts or Science—Amy Lady Tate, £120 p.a. for 2 yrs., Beilby Research, £120, Henrietta Busk, £60; Gamble (tuition fees); Notcutt Travelling Studentship, £200 for session 1938–39; Holland Crompton Memorial Scholarship for research in Chem., £30 (1940).

PUBLICATIONS: *Calendar*, post free, 3s. 6d.; B.C. Magazine (Students).

## THE YEAR 1936–37

BENEFACTIONS. Fawcett Legacy, £2000; Beilby Legacy, £2000; £158 for endowment of a J. M. MacGregor Prize in Greek.

NEW POSTS. Lectureship in Dept. of Geography. Tutorship in Dept. of Sociology, Social Studies and Economics. Demonstratorship in Dept. of Zoology.

PUBLIC LECTURES GIVEN AT THE COLLEGE. Prof. Dorothy Tarrant, "Plato and the Greek Genius"; Prof. John Jewkes (Univ. of Manchester), Stevenson Lecture, "Social Policy and the Depressed Areas"; C. S. Gutkind, "Cosimo de' Medici and Humanism"; Prof. Ernest de Selincourt (Belfast Univ.), Fawcett Lecture, "Dorothy Wordsworth"; Dr. Friedrich Zeuner (Inst. of Archaeology), 2 public lectures, (i.) "The Climate of the Countries adjoining the Ice-Sheet of the Pleistocene," (ii.) "Some Aspects of Evolution revealed by the Study of Fossils"; Dr. Ernst H. Meyer, 3 lectures on "The Development of Chamber Music in England from 1550 to Purcell"; Prof. Emile Cammaerts, C.B.E. (London Sch. of Econ.), 3 lectures on "Emile Verhaeren"; Dr. Raymond Klibansky, 3 lectures on "Early Origins of Modern Philosophy"; T. Weevers, "Martin Opitz' Debt to Holland."

STUDENTS. Full-time: 544, including 22 graduates. Part-time: 74, including 20 graduates.

DEGREES OBTAINED. B.A., 89; M.A., 4; B.Sc., 45; M.Sc., 6; D.Sc., 2; Ph.D., (Arts) 3; Ph.D. (Science), 2.



# ROYAL HOLLOWAY COLLEGE FOR WOMEN

Founded 1886

Englefield Green, Surrey.

Telephone : Egham 114.

CHAIRMAN OF THE GOVERNORS—H.R.H. PRINCESS ALICE, COUNTESS OF  
ATHLONE.

PRINCIPAL—Miss J. R. BACON, M.A. Camb.

SECRETARY TO THE GOVERNORS—Mrs. M. R. AKEHURST.

## TEACHING STAFF

*Botany* [Sr. Lectr.  
Blackwell, Miss E. M., M.Sc. Liv.  
Madge, Miss M. A. P., Ph.D., B.Sc.  
Staff Lectr. & Demr.

*Chemistry*  
Moore, T. S., M.A. Ox. Prof.  
Plant, Miss M. M. T., Ph.D. Birm.  
Lectr.  
Lavington, Miss E. M. W., B.A.,  
B.Sc. Ox.  
Asst. Lectr. & Demr.

*Classics*  
Sleeman, J. H., M.A. Prof.  
Woodward, Miss A., M.A. Camb.  
Sr. Lectr.  
Fergusson, Miss M. B., M.A.  
Camb. and St. And. Lectr.

*English* [Reader.  
Willcock, Miss G. D., M.A.  
Green, Miss H. A. C., M.A. Lectr.  
Tompkins, Miss J. M. S., M.A.,  
D.Lit. Asst. Lectr.

*French* [Sr. Lectr.  
Honey, Miss M. E. D., M.A.  
McWilliam, Miss N., M.A. Edin.  
Lectr.  
Brereton, Miss G. E., B.A., B.Litt.  
Ox. Asst. Lectr.  
Cochu, Mlle J. (Conversation)  
Assistente.

*German* [Sr. Lectr.  
Delp, Miss W. E., D. de l'U. Paris  
Richey, Miss M. F., M.A., D.Lit.  
Staff Lectr.

*History* [Prof.  
Johnstone, Miss Hilda, M.A. Manc.  
Powell, Miss I. G., M.A. Lectr.  
Deanesly, Miss M., M.A. Camb.  
Asst. Lectr.

*Mathematics* [Prof.  
Baker, B. B., D.Sc. Edin., M.A.  
Pick, Miss M., M.A. Sr. Lectr.  
Knowles, Miss E. A. G., Ph.D.  
Asst. Lectr.  
Sargent, Miss W. L. C., M.A.  
Asst. Lectr.

*Physics*  
Horton, F., Sc.D. Camb., D.Sc.,  
F.R.S. Prof.  
Smith, C. J., Ph.D., M.Sc.  
Lectr. & Demr.  
Williamson, Miss E. M., B.Sc.  
Asst. Demr.

*Zoology*  
Fretter, Miss V., B.Sc., Ph.D.  
Pt.-time Lectr. & Demr.

## Art

*Drawing and Painting*  
Carey, C. W. Teacher.  
*Music* [Lectr. & Director.  
Barker, Miss S. M.  
3 Visiting Teachers.

## GENERAL INFORMATION

Opened in 1886. 19 miles from London. A School of the Univ. in Arts and Sci. LIBRARY, 25,909 vols. LABS.: Bot., Chem., Physics: Botanic Gardens. Area, 95 acres. Residential accommodation for over 200 students and staff. Courses for first and higher degrees in Arts and Sci. Incl. FEES: £144 a yr. Entrance Schps., £80, etc.; post-graduate studentships. PUBLICATIONS: *Calendar*, 2s. post free; R.H.C. *Letter* (Old Students' Assn.)

## THE YEAR 1936-37

RETIREMENT. Miss E. M. Rowell (Maths.).

STUDENTS. Full-time: 165, including 5 graduates.

DEGREES OBTAINED. B.A., 32; M.A., 1; B.Sc., 20.

# WESTFIELD COLLEGE, HAMPSTEAD

Founded 1882

Kidderpore Avenue, N.W.3.  
Telephone : Hampstead 1632.

CHAIRMAN OF COUNCIL—The Rt. Hon. Sir THOMAS INSKIP, P.C., C.B.E.,  
K.C., M.P.

PRINCIPAL—Miss D. CHAPMAN, M.A. St. And.

## TEACHING STAFF

### *Biochemistry*

McKie, Phyllis V., M.Sc., Ph.D.  
Wales, D.Sc. Lectr.

### *Botany*

Delf, Ellen M., B.A. Dub., D.Sc.,  
F.L.S. Reader.  
Martin, Margaret T., M.Sc. Lectr.  
Conway, Verona M., B.A. Camb.  
Asst. Lectr.

### *Classics*

#### Lecturers :

Dyson, G. W., M.A. Camb.  
Barratt, Christine, M.A. Ox.  
Whittaker, Molly, B.A., M.Litt.  
Camb.

### *English Lang. and Lit.*

Davis, B. E. C., M.A. Ox. Reader.  
Serjeantson, Mary S., M.A. Liv.,  
D.Phil. Ox. Reader.  
Galway, Margaret, M.A. Belf.

Asst. Lectr.

### *French*

Robertson, Mysie E. I., M.A.  
Edin., D. ès L. Paris.

[Reader.

#### Lecturers :

Crosland, Mrs. J., M.A. (pt.-time).  
Turquet, A., C.B.E., L. ès L.,  
Chev. Lég. d'H. (part-time).

### *German*

Craig Houston, Gertrude A., B.A.  
Belf., M.A. Lond. Sr. Lectr.

### *History*

Sykes, Rev. N., M.A. Ox. and  
Leeds, D.Phil. Ox. Prof.  
Martin, Eveline C., M.A., Ph.D.  
(Imp. H.) Reader.  
Hill, Rosalind M. T., B.A., B.Litt.  
Ox. Lectr.

### *Mathematics, Pure and Applied*

Stanley, Gertrude K., B.Sc. Ox.,  
M.Sc. Reader.  
Jackson, J. M., B.A. Lond., Ph.D.  
Camb. Lectr.  
Tausky, Olga, D.Phil. Vienna  
Asst. Lectr.

## GENERAL INFORMATION

Founded in 1882 by Miss Dudin Brown, the college is undenominational, but the Principal must be a member of the Church of England. Near the S.W. corner of Hampstead Heath ; residential accomm. for 150 students. A School of the Univ. in Arts.

Students are not admitted under the age of 18, and are required to pass an Entrance examn. Approved courses (Hons. and Pass) in the Fac. of Sci. in Bot. and Maths. are provided, as well as in Arts. Two Research Studentships are offered each year to graduates of any Univ., v. App. II. 1. *Fees* : tuition from 38 to 53 gs., residence £90 per session. There is an Old Students' Assocn.

# WESTFIELD COLLEGE, HAMPSTEAD

193

PUBLICATIONS. *Prospectus* (July); *Report* (October); *Hermes* (Students' Mag.).

## THE YEAR 1936-37

NEW DEPARTMENT. German.

RESIGNATIONS. Miss J. Carlisle (English), Miss W. L. C. Sargent (Maths.), Mrs. G. A. Ward (Hist.).

STUDENTS. Full-time: 153, including 4 graduates. Part-time: 2, both graduates.

DEGREES OBTAINED. B.A., 35; M.A., 2; B.Sc., 8; M.Sc., 1; Ph.D., 2.

# KING'S COLLEGE OF HOUSEHOLD AND SOCIAL SCIENCE

Founded 1928

Campden Hill Road, W.8.

Telephone : Western 3704.

WARDEN—Miss HELENE REYNARD, M.A. Ox.

## TEACHING STAFF

<i>Biology</i>		[Reader.	Craig, Marjorie	Asst. Lectr.
Esdaile, Philippa C., D.Sc. Manc.			Chappell, Gweneth M., B.Sc.	
Crofts, Doris, M.Sc.	Lectr.			Asst. Lectr.
Gardiner, Phyllis, B.Sc.				
	Asst. Lectr.		<i>Hygiene and Bacteriology</i>	
<i>Chemistry</i>			Proctor, Ruth E., M.A., M.B.,	
Tinkler, C. Kenneth, B.Sc. Lond.			Ch.B St. And., D.P.H.	Lectr.
and Wales, D.Sc. Birm.	Prof.		Dukes, C. E., O.B.E., M.D. Edin.,	
Jackman, Agnes (Mrs.), B.Sc.,			M.Sc., D.P.H.	Lectr.
A.I.C.	Lectr.		<i>Physiology</i>	
Pain, M. Joyce (Mrs.), M.A. Ox.			Mottram, V. H., M.A. Camb.	Prof.
	Asst. Lectr.		Hartwell, Gladys A., D.Sc.	Lectr.
Kernahan, Patricia (Mrs.), B.Sc.			Clifford, Winifred M., M.Sc.	
	Asst. Lectr.			Asst. Lectr.
<i>Economics and Business Affairs</i>			Walker, Verity M., Nat. Sci.	
The Warden	Lectr.		Tripos	Asst. Lectr.
Stanners, Harold, B.Sc. (Econ.)			<i>Physics</i>	
	Lectr.		Dillon, Teresa J., M.Sc.	Lectr.
<i>Household Work</i>			Andrewes, U., M.Sc., Ph.D.	
Lindsay, Jessie	Sr. Lectr.			Asst. Lectr.
Wood, Edith	Lectr.		<i>Psychology</i>	
Tress, Helen	Lectr.		Pinard, W. J., M.A. S.A., M.Ed.	
			Harv., Ph.D.	Lectr.

## GENERAL INFORMATION

Formerly a dept. of King's Coll. for Women ; since 1928 an independent School of the Univ. Residential accommodation (Queen Mary's Hostel) for 129 students.

Full degree courses for B.Sc. in Household and Social Science. *Fees* : For tuition, 45 gs. ; residence, 75 to 93 gs. per session.

*Publications* : *Prospectus* ; *Students' Magazine*.

## THE YEAR 1936-37

STUDENTS. Full-time : 257, including 8 graduates. Part-time : 28.

DEGREES OBTAINED. B.Sc. (Household and Soc. Sci.), 2nd Class Hons., 4 ; Pass, 33

# THEOLOGICAL SCHOOLS OF THE UNIVERSITY

## APPOINTED AND RECOGNIZED TEACHERS

In the following list the names of the Theological Schools are indicated by symbols thus :

NEW COLLEGE, LONDON (N.).	RICHMOND COLLEGE (R.).
KING'S COLLEGE THEOLOGICAL DEPT. (KT.).	ST. JOHN'S HALL, Highbury (J.).
<i>Theology</i>	
*Brown, Rev. Prof. Canon S. L., M.A., D.D. Ox. (KT.)	Hollis, Rev. F. J., D.D. (KT.).
*Cave, Rev. Prof. S., M.A. Camb., D.D. Glas. and Lond., B.A. (N.).	*Hooke, Prof. S. H., M.A. Ox., B.D., B.A. (KT.).
*Clogg, Rev. Prof. F. B., M.A. Camb., B.D. (R.).	Jay, Rev. E. G., M.A. Leeds (KT.).
Davies, Rev. W. A., M.A. Ox. and Wales, B.D. (N.).	Nowell-Rostron, Rev. S. (J.).
Dimond, Rev. S. G., M.A. (R.).	*Relton, Rev. Prof. H. M., D.D. (KT.).
Gilbert, Rev. T. W., M.A., D.D. Ox. (J.).	*Smith, Rev. Prof. C. R., B.A., D.D. (R.).
Hanson, Rev. Preb. R., M.A. Ox., B.D. (KT.).	Smith, Rev. F. H., D.D. (KT.).
*Hardman, Rev. Prof. O., D.D., M.A. (KT.).	*Tasker, Rev. Prof. R. V. G., M.A. Camb. (KT.).
	*Waterhouse, Rev. Prof. E. S., M.A., D.D. (R.).
	Woolf, Rev. B. Lee, M.A., B.D., B.Sc., Ph.D. Edin. (N.).

\* Appointed Teacher.

## GENERAL INFORMATION

NEW COLLEGE, HAMPSTEAD (Congregational), 527 Finchley Road, N.W.3. Principal—Rev. S. Cave, M.A., D.D. Secretary, Rev. J. B. Binns, M.A.

New College, founded in 1696 and reconstituted in 1850, and Hackney College, founded in 1803, were merged into one institution in 1924. *Library*, 55,000 vols. Sessional fee, 6 gs. for each class. Internal students—40.

KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, W.C.2. Dean—Rev. Preb. R. Hanson, M.A., B.D. Secy.—S. T. Shovelton, M.A. Founded 1829 (v. King's Coll.). Complete courses for all Theol. degrees. Day and Evg. Classes. *Fees*: for tuition, undergraduate courses, £32 per session; evening classes, 5 gs. per term. *Hostel* for students: fee for residence, £22 per term. Full-time students, 220; internal students of the University, 77. The College grants A.K.C. Diploma in Theology.

RICHMOND COLLEGE, RICHMOND, Surrey. Principal—Rev. Prof. G. Ryder Smith, B.A., D.D. Secy. of Staff—Rev. S. G. Dimond, M.A.

Opened 1843. Students are accepted candidates for Ministry of the Methodist Church, but other Univ. students may be admitted. Residential accommodation for 60. Internal students—43.

ST. JOHN'S HALL, HIGHBURY, Avenell Rd., N.5 (Church of England). Principal—Rev. T. W. Gilbert, M.A., D.D. Hon. Secy. of Council—Rev. Prebendary H. W. Hinde, M.A.

Founded and endowed 1863 by Dr. A. Peache, Chancellor of the Western Univ. of Canada. Courses for A.L.C.D. (Associateship of the London College of Divinity) and L.Th. Durham as well as for B.D. of London. *Fees*: Entrance, 2 gs.; board and tuition, £93. Residential accommodation for 70 students.

# MEDICAL SCHOOLS OF THE UNIVERSITY

## RECOGNIZED TEACHERS

*Note.*—In the following list the names of the Medical and other Schools are indicated by letters thus :

BETHLEM ROYAL HOSPL.	(Bm.).	LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE	(H.).
BRITISH POSTGRADUATE MED. SCH.	(BP.).	MAUDSLEY HOSPL.	(My.).
CHARINGCROSS HOSPL. MED. SCH.	(C.).	MIDDLESEX HOSPL. MED. SCH.	(M.).
COLL. OF PHARMACEUTICAL SOC.	(P.).	ROYAL CANCER HOSPL.	(Can.).
GUY'S HOSPL. MED. SCH.	(G.).	ROYAL DENTAL HOSPL. OF LOND.	(D.).
KING'S COLL. HOSPL. MED. SCH.	(KM.).	SCH. OF DENT. SURG.	(D.).
LISTER INSTITUTE	(LI.).	ST. BART.'S HOSP. MED. COLL.	(B.).
LONDON HOSPL. MED. COLL.	(L.).	ST. GEORGE'S HOSPL. MED. SCH.	(SG.).
LONDON (R.F.H.) SCH. OF MED.	(LW.).	ST. MARY'S HOSPL. MED. SCH.	(SM.).
FOR WOMEN	(LW.).	ST. THOMAS'S HOSPL. MED. SCH.	(T.).
		UNIV. COLL. HOSPL. MED. SCH.	(UM.).
		WESTMINSTER HOSPL. MED. SCH.	(W.).

and names of certain institutions having recognized teachers thus :

BROMPTON HOSPL. FOR CONSUMPTION	(BH.).	ROYAL LONDON OPHTHALMIC HOSPL.	(Oph.).
HOSPL. FOR SICK CHILDREN	(Sch.).	NATIONAL INSTITUTE FOR MEDICAL RESEARCH	(MR.).
NATIONAL HOSPL. FOR DISEASES OF THE NERVOUS SYSTEM	(NH.).		

### *Anæsthetics*

Apperly, R. E., L.R.C.P., M.R.C.S.	(M.).
Boyle, H. E. G., O.B.E., M.R.C.S., L.R.C.P.	(B.).
Daly, A. S., L.R.C.P., M.R.C.S.	(M.).
Gandy, E. W., O.B.E., B.A. Camb., L.R.C.P., M.R.C.S.	(W.).
Morris, C. W., M.B., B.S. Durh., L.R.C.P., M.R.C.S.	(UM., LW.).
Phillips, G. R., L.R.C.P., M.R.C.S.	(SM.).
Richards, H. A., M.A. Camb.	(KM.).
Sunderland, A., L.R.C.P., M.R.C.S.	(C.).

Wilson, H. B., M.B., B.Ch. Camb., L.R.C.P., M.R.C.S.	(T.).
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### *Anatomy*

Appleton, A. B., M.A., M.D. Camb., L.R.C.P., M.R.C.S. Prof.	(T.).
Frazer, J. E. S., D.Sc., F.R.C.S.	Prof. (SM.).
Hamilton, W. J., D.Sc. Glas., M.Sc., M.B., B.Ch., B.A.O. Belf.	Prof. (B.).
Harper, W. F., B.Sc., Ph.D., M.D. St. And.	Reader (L.).
Johnston, T. B., M.B., Ch.B. Edin.	Prof. (G.).
Keene, Mrs. M. F. L., M.B., B.S.	Prof. (LW.).

(B), (Bm.), etc., v. *Note* above.



- Kirk, J., M.B., Ch.B. Edin., F.R.C.S.E.  
S. A. Courtauld Prof. (M.).
- Robinson, R. H. O. B., B.A., M.B., M.Ch. Camb., F.R.C.S. (T.).
- Whillis, J., M.D., M.S. Durh., F.R.C.S. Reader (G.).
- Bacteriology*, v. also Path.
- Bamforth, J., M.D., Ch.B., D.P.H. Liv., M.R.C.P., M.R.C.S. (T.).
- Bedson, S. P., M.Sc., M.D., B.S. Durh., D.Sc. Belf.  
Goldsmiths' Prof. (L.).
- Dudgeon, L. S., C.M.G., C.B.E., F.R.C.P. (T.).
- Dukes, C. E., O.B.E., M.D. Edin., M.Sc., D.P.H. (KM.).
- Duncan, J. T., L.R.C.P.I., L.R.C.S.I. (H.).
- Eagles, G. H., M.D. Tor., D.P.H. (LI.).
- Fleming, A., M.B., B.S., L.R.C.P., F.R.C.S. Prof. (SM.).
- Freeman, J., D.M., B.Ch. Ox., M.A. (SM.).
- Garrod, L. P., M.A., M.D., B.Ch. Camb., M.R.C.P., M.R.C.S. Prof. (B.).
- Goadby, Sir Kenneth W., K.B.E., L.R.C.P., M.R.C.S., L.D.S., D.P.H. Camb. (UM.).
- Ledingham, Sir John C. G., C.M.G., M.A., LL.D., M.B., Ch.B., D.Sc. Aberd., Sc.D. Dub., F.R.C.P., F.R.S. Prof. (LI.).
- Miles, A. A., M.A. Camb., M.R.C.P., M.R.C.S. Prof. (UM.).
- Nabarro, D. N., B.Sc., M.D., F.R.C.P., D.P.H. (SCh.).
- Petrie, G. F., M.D., Ch.B. Aberd., (LI.).
- Schütze, H. L., M.D. Würzb. (LI.).
- Stamp, T. C., M.A., B.Ch. Camb., M.R.C.S., L.R.C.P. Reader (BP.).
- Topley, W. W. C., M.A., M.D., B.Ch. Camb., F.R.C.P., M.R.C.S., F.R.S. Prof. (H.).
- Whitby, L. E. H., C.V.O., M.A., M.D., M.R.C.P., M.R.C.S., D.P.H. (M.).
- Wilson, G. S., M.D., B.S., M.R.C.P., M.R.C.S., D.P.H. Prof. (H.).
- Wright, Sir A. E., K.B.E., C.B., B.A., Sc.D., M.D. Dub., LL.D. Belf. & Ed., F.R.S. Prof. (SM.).
- Biochemistry*, v. also Chemistry, Pathological.
- Boyland, E., M.Sc. Manc., Ph.D. Reader (Can.).
- Coward, Katharine H., M.Sc. Manc., D.Sc. (P.).
- Dodds, E. C., M.V.O., D.Sc., M.D., B.S., Ph.D., L.R.C.P., M.R.C.S. Prof. (M.).
- McCance, R. A., M.A., M.D., Ph.D. Camb., M.R.C.P., M.R.C.S. (KM.).
- McLean, Ida S., D.Sc. (LI.).
- Raistrick, H., B.A., Sc.D. Camb., D.Sc. Leeds, F.R.S. Prof. (H.).
- Reeves, H. G., M.Sc., Ph.D. Birm., D.Sc. (B.).
- Robison, R., Ph.D. Leip., D.Sc., F.I.C. Prof. (LI.).
- Ryffel, J. H., M.A., B.Ch. Camb., B.Sc., F.I.C. (recogd. in Forensic Med.) Reader (G.).
- Todd, A. R., D.Sc. Glas., D.Phil. Ox., Dr. Phil. Nat. Frankfurt. Reader (LI.).
- Wooldridge, W. R., Ph.D. Camb., M.Sc., M.R.C.V.S. (H.).
- Wormall, A., D.Sc. Leeds., A.I.C. Prof. (B.).
- Zilva, S. S., Ph.D. Giessen, D.Sc., F.I.C. (LI.).
- Biology*
- Cunnington, W. A., M.A. Camb., D.Sc. (B.).
- Evans, T. J., M.A. Ox. (G.).

- Lucas, Catherine L. T., M.Sc. (L.M.).  
 Rushton, W., D.Sc., A.R.C.S., D.I.C. (T.).  
 Woodger, J. H., D.Sc. Reader (M.).
- Chemistry*  
 Colles, W. M., B.Sc. (G.).  
 Cook, J. W., Ph.D., D.Sc. Prof. (C.).  
 Ellis, G. W., O.B.E., D.Sc. (SM.).  
 Gibson, C. S., O.B.E., M.A. Ox. and Camb., B.Sc. Ox., M.Sc. Tech. Manc., F.I.C., F.R.S. Prof. (G.).  
 Lowndes, J., F.I.C. (T.).  
 Plimmer, R. H. A., D.Sc. Prof. (T.).  
 Tuck, W. B., D.Sc. Prof. (M.).  
 Widdows, Sybil T., B.Sc., F.I.C. (LW.).
- Chemistry as applied to Hygiene*  
 Delafield, M. E., B.A., M.B., B.Ch., D.P.H. Camb., L.R.C.P., M.R.C.S. Prof. (H.).
- Chemistry, Pathological, v. also Biochem.*  
 Harington, C. R., M.A. Camb., Ph.D. Edin., F.R.S. Prof. (UM.).  
 King, E. J., M.A. McMaster, Ph.D. Tor. Reader (BP.).  
 Lynch, G. R., O.B.E., M.B., B.S., D.P.H. (SM.).  
 Mann, S. A., D.Sc., F.I.C. (My.).
- Chemistry, Physiological*  
 Gardner, J. A., M.A. Ox., F.I.C. Reader (SG.).
- Dentistry, v. infra*
- Dermatology*  
 Barber, H. W., M.A., M.B., B.Ch. Camb., F.R.C.P. (G.).  
 Barron, H. T., M.D., M.R.C.S., M.R.C.P. (W.).  
 Brain, R. T., M.D., B.S., F.R.C.P., M.R.C.S. (LW.).
- Burrows, A., M.D., B.S., M.R.C.P. (L.).  
 Dore, S. E., M.A., M.D., B.Ch. Camb., F.R.C.P., M.R.C.S. (W.).  
 Dowling, G. B., M.D., B.S., F.R.C.S. (T.).  
 Drake, J. A., M.D., F.R.C.P., D.P.H. (KM.).  
 Forman, L., M.D., B.S., M.R.C.P. (G.).  
 Franklin, J. L., M.D., B.Chir. Camb., M.R.C.P., M.R.C.S. (W.).  
 Freshwater, D. H., M.A., M.D. Camb. (SG.).  
 Goldsmith, W. N., M.A., M.D. Camb., M.R.C.P. (UM.).  
 Gray, A. M. H., C.B.E., M.D., B.S., F.R.C.P., F.R.C.S. (UM.).  
 Heggs, G. B. M., M.D., B.S., M.R.C.P. (SM.).  
 MacCormac, H. (v. also Med., *infra*) (M.).  
 O'Donovan, W. J., O.B.E., M.D., B.S., M.R.C.P. (L.).  
 Roxburgh, A. C., M.A., M.D., B.Ch. Camb., F.R.C.P. (B.).  
 Thomson, M. S., M.A., M.D. Camb., M.R.C.P., M.R.C.S. (KM.).  
 Wigley, J. E. M., M.B., B.S. Melb., M.R.C.P. (C.).
- Dietetics* [Prof. (UM.).  
 Cowell, S. J., M.A., M.B., B.Ch. Camb., M.R.C.P., M.R.C.S.
- Diseases of Children*  
 Barrington-Ward, Sir Lancelot E., K.C.V.O., Ch.M. Edin., F.R.C.S. Eng. and Edin. (Sch.).  
 Cameron, H. C., M.A. Camb. and Glas., M.D. Camb., F.R.C.P. (G.).  
 Ellis, R. W. B., M.A., M.D., B.Ch. Camb., M.R.C.P. (G.).

- Frew, R. S., M.D., Ch.B. Edin., M.R.C.P. (Sch.).  
 Gregory, Mrs. H. H. Chodak, M.D., B.S., M.R.C.P. (LW.).  
 Hamilton, C. K. J., B.A., B.M., B.Ch. Ox., M.R.C.P., M.R.C.S. (C.).  
 Harris, C. F., M.D., B.S., F.R.C.P., M.R.C.S. (B.).  
 Jewesbury, R. C., M.A., M.D. Ox., F.R.C.P., M.R.C.S. (T.).  
 Maitland-Jones, A. G., O.B.E., M.C., M.D., B.S., M.R.C.S., L.R.C.P. (L.).  
 Moncrieff, A. A., M.D., B.S., F.R.C.P. (M.).  
 Paterson, D. H., B.A., M.D. Edin., Ch.B. Manitoba, F.R.C.P. (W.).  
 Pearson, W. J., D.S.O., M.C., M.A., D.M., Ch.B. Ox., F.R.C.P. (UM.).  
 Sheldon, W. P. H., M.D., B.S., M.R.C.P., M.R.C.S. (KM.).  
 Tallerman, K. H., M.A., M.D. Camb., M.R.C.P., M.R.C.S. (L.).
- Entomology, Medical*  
 Buxton, P. A., M.A. Camb., L.R.C.P., M.R.C.S. Prof. (H.).  
 Wigglesworth, V. B., M.A., M.D., B.Chir. Camb. Reader (H.).
- Epidemiology and Vital Statistics*  
 Edge, Major P. G., O.B.E. (H.).  
 Greenwood, M., D.Sc., F.R.C.P., M.R.C.S., F.R.S. Prof. (H.).  
 Hill, A. B., D.Sc., Ph.D. Reader (H.).  
 Russell, W. T. (H.).
- Forensic Med., v. also Biochem., Chem.—Pathological.*  
 Brend, W. A., M.A. Camb., B.Sc., L.R.C.P., M.R.C.S. (C.).  
 Davidson, J., M.B., Ch.B. Edin. (L.).
- Lynch, G. R., O.B.E., M.B., B.S., L.S.A., D.P.H. (SM. and W.).  
 Lyster, R. A., M.D., Ch.B., B.Sc. (Pub. Health), D.P.H. Birm., B.Sc., L.S.A. (also in Hyg.) (B.).  
 Ryffel, J. H., M.A., B.Ch. Camb., B.Sc., F.I.C. Reader (G.).  
 Spilsbury, Sir Bernard H., M.A., B.M., B.Ch. Ox., F.R.C.P. (LW.).
- Gynæcology, v. Obstetrics and Gynæcology*  
*Helminthology*  
 Leiper, R. T., D.Sc., M.D., Ch.B. Glas., F.R.S.  
 W. J. Courtauld Prof. (H.).
- Hygiene*  
 Angus, T. C. (H.).  
 Bedford, T., Ph.D., D.Sc. (H.).  
 Buchan, G. F., M.D., Ch.B. Glas., M.R.C.P., D.P.H. (H.).  
 Hartley, P., C.B.E., D.Sc., F.R.S. (MR.).  
 Jameson, W. W., M.A., M.D., Ch.B. Aberd., F.R.C.P., D.P.H. Prof. (H.).  
 Lyster, R. A. (v. Forensic Medicine) (B.).  
 Parkinson, G. S., D.S.O., L.R.C.P., M.R.C.S., D.P.H. (H.).  
 Peters, B. G., M.Sc. Brist., Ph.D. (H.).  
 Porter, C., M.D., C.M., B.Sc. Edin., M.R.C.P. (M.).  
 Russell, W. T., F.S.S. (H.).  
 Shinnie, A. J., M.D. Aberd., D.P.H. (W.).  
 Smith, May, M.A. Manc., D.Sc. (H.).  
 Spitta, H. R. D., M.V.O., M.D., B.S. Durh., L.R.C.P., M.R.C.S., D.P.H. Camb. (SG.).  
 Williams, R. P., M.D., D.P.H. Ox. (KM.).

*Laryngology, Oto-Rhino-*

Brown, L. G., M.C., M.A., D.M.  
Ox., L.R.C.P., F.R.C.S. (C.).  
Cann, R. J., M.B., M.S., M.R.C.S.,  
L.R.C.P. (G.).  
Capps, F. C. W., F.R.C.S. (B.).  
Chubb, G. C., D.Sc., M.B., B.S.,  
F.R.C.S. (W.).  
Cleminson, F. J., M.A., M.Ch.  
Camb., F.R.C.S. (M.).  
Daggett, W. I., M.A., M.B.,  
B.Chir. Camb., F.R.C.S.  
(KM.).  
Davis, E. D. D., F.R.C.S. (C.).  
Formby, M. L., B.A., B.Sc. Ox.,  
M.B., B.S. Adel., F.R.C.S.  
(UM.).  
Graham, C. I., F.R.C.S. (SM.).  
Hastings, S., M.B., M.S., F.R.C.S.  
(M.).  
Hope, C. W. M., O.B.E., M.D.,  
B.S. Durh., F.R.C.S. (KM.).  
Howarth, W. G., M.A., M.B.,  
B.Ch. Camb., F.R.C.S. (T.).  
Jory, P. J., D.S.O., M.B., Ch.B.  
N.Z., F.R.C.S. (SG.).  
Kisch, H. A., M.B., B.S., F.R.C.S.  
(UM.).  
Layton, T. B., D.S.O., M.B., M.S.,  
F.R.C.S. (G.).  
McLaggan, J. D., M.A., M.B.,  
B.Ch. Aberd., F.R.C.S.,  
F.R.C.S.E. (LW.).  
Mill, W. A., M.B., M.S., F.R.C.S.  
(T.).  
Mollison, W. M., C.B.E., M.A.,  
M.Ch. Camb., F.R.C.S. (G.).  
Morris, W., F.R.C.S. Edin. (L.).  
Negus, V. E., M.B., M.S., L.R.C.P.,  
F.R.C.S. (KM.).  
Neilson, D. F. A., B.A. Camb.,  
L.R.C.P., F.R.C.S. (T.).  
Patterson, N., M.B., Ch.B. Edin.,  
F.R.C.S. (L.).  
Robertson, G. D., F.R.C.S. (SM.).  
Russell, H. G. B., M.A. Camb.,  
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Scott, S. R., M.B., M.S., F.R.C.S.  
(B., NH.).  
Watkyn-Thomas, F. W., B.Ch.  
Camb., F.R.C.S. (UM.).

*Medicine*, v. also Chem.—Path.,  
Dis. of Child., Mental Dis.,  
Pharmacol.

Abrahams, A., O.B.E., B.A., M.D.,  
B.Ch. Camb., F.R.C.P. (W.).  
Aitken, R. S., D.Phil. Ox., M.B.,  
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Reader (BP.).  
Beaumont, G. E., M.A., D.M. Ox.,  
F.R.C.P., D.P.H. (M.).  
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F.R.C.P., M.R.C.S. (M.).  
Bennett, T. I., M.D., B.S.,  
F.R.C.P., M.R.C.S. (M.).  
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(M.).  
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Cameron, H. C., M.A. Camb. and  
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(T.).  
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(B), (Bm.), etc., v. *Note* on p. 197.

- Clark-Kennedy, A. E., M.A., M.D.  
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Ch.B. Edin., F.R.C.P. Edin.  
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(KM.).
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(T.).
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(B.).
- Hampson, A. C., M.C., M.A., M.D.  
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(W.).
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(B.).
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*Pharmacol.*) (G.).
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(L.).
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- Poulton, E. P., M.A., M.D., B.Ch.  
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K.C.M.G., C.B., M.A., M.D.,  
C.M. Edin., F.R.C.P. (W.).
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(T.).
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- Ward, G. E. S., M.D., B.S.,  
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(W.).
- Mental Diseases*
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(G.).
- Golla, F. L., O.B.E., M.A., M.B.,  
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Prof. (My.).
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- Mapother, E., M.D., F.R.C.P.,  
F.R.C.S. Prof. (KM., My.).
- Nicol, W. D., M.B., B.S., L.R.C.P.,  
M.R.C.S., D.P.M. (LW.).
- Petrie, A. A. W., M.D., B.S.,  
F.R.C.P., F.R.C.S., D.P.M.  
(C.).
- Phillips, J. G. P., M.D., B.S.,  
F.R.C.P. (B., Bm.).
- Tennent, T., M.D., Ch.B. Glas.,  
M.R.C.P., D.P.H., D.P.M.  
(My.).
- Woods, J. C., B.A. R.U.I., M.D.,  
B.S., L.R.C.P., M.R.C.S.  
(L.).

- Worth, R., M.B., B.S. Durh.,  
L.R.C.P., M.R.C.S. (W.).
- Yellowlees, H., O.B.E., M.D.,  
Ch.B. Glas., F.R.F.P.S.  
Glas., F.R.C.P. Edin.,  
M.R.C.P., D.P.M. (T.).
- Neurology*
- Critchley, M., M.D. Brist., F.R.C.P.  
(KM.).
- Howell, C. M. H., M.A., D.M. Ox.,  
F.R.C.P. (NH.).
- Hurst, A. F., M.A., M.D., B.Ch.  
Ox., F.R.C.P. (G.).
- McAlpine, D., M.D., Ch.B. Glas.,  
F.R.C.P. (M.).
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M.D., F.R.C.P. (UM.).
- Worster-Drought, C. C., M.A.,  
M.D. Camb., F.R.C.P.,  
M.R.C.S. (Bm.).
- Obstetrics and Gynaecology*
- Banister, J. B., O.B.E., M.A.,  
M.D., B.Ch. Camb., F.R.C.P.,  
F.R.C.S. (C.).
- Barris, J. D., B.A., M.B., B.Ch.  
Camb., F.R.C.P., F.R.C.S. (B.).
- Beattie, W. J. H. M., M.A., M.D.  
Camb., F.R.C.S., M.C.O.G.  
(B.).
- Bell, A. C. H., M.B., B.S., F.R.C.S.  
(W.).
- Bonney, W. F. V., M.D., M.S.,  
B.Sc., F.R.C.S., M.R.C.P.  
(M.).
- Bourne, A. W., M.A., M.B., B.Ch.  
Camb., F.R.C.S. (SM.).
- Bowes, R. K., M.D., M.S. (T.).
- Brews, R. A., M.D., M.S.,  
M.R.C.P., F.R.C.S. (L.).
- Browne, F. J., M.D., Ch.B. Aberd.,  
D.Sc. Edin., F.R.C.S.E.  
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- Chapple, H., M.A., M.Ch., M.B.  
Camb., B.Sc. Adel., F.R.C.S.  
(G.).
- Cook, F., B.Sc., M.B., B.S.,  
F.R.C.S. (G.).
- Dearnley, Gertrude, M.D., B.S.,  
F.C.O.G. (LW.).
- Dodd, S., M.A., M.B., B.Ch.  
Camb., M.R.C.S., F.R.C.P.,  
F.R.C.S.E. (W.).
- Donaldson, M., B.A., M.B., B.Ch.  
Camb., F.R.C.S. (B.).
- Fleming, Amy M., D.Sc., M.D.  
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L.R.C.P., F.C.O.G. (KM.).
- Goodwin, A., O.B.E., M.D., B.S.,  
F.R.C.S. (W.).
- Gray, A. O., M.D. Durh.,  
F.R.C.P.E., F.R.C.S. (C.).
- Holland, E., M.D., B.S., F.R.C.S.,  
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- Kellar, R. J., M.B., Ch.B. Edin.,  
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*Parasitology*

- ..... (Med. P.) Reader (H.).

*Pathology and Anat.—Morbid,*  
 v. also Chem., Bact.

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 Dudgeon, L. S., C.M.G., C.B.E., F.R.C.P. (also in Bact.) Prof. (T.).



- Gray, J, M.D., Ch.B Edin.  
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Prof (B).
- Knott, F. A., M.D., B.S., M.R.C.P.,  
M.R.C.S., D.P.H., A R C.S.  
Reader (G.).
- Lakin, C. E., M D, B.S., F R C P.,  
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- Lawrence, R. D., M.A., M D.,  
Ch.B Aberd., F.R.C P (also  
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Prof. (M)
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M R C S (UM.).
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M.R.C.S. Prof. (SM).
- Nicholson, G. W. de P, M.A, M.D.  
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- Patterson, J., M.Sc. Durh., Ph.D.  
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- Ross, Joan M., M.D., B.S., M.R.C.P.,  
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- Scarff, R. W, M.B., B.S., L.R.C.P.,  
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M.R.C.S. (L.W.).
- Taylor, J. F., B.A., M.D., B.Ch.  
Camb., L.R.C.P., M.R.C.S.  
(SG.).
- Teale, F. H., B.Sc, M.D., F.R.C.P.  
(UM)
- Turnbull, H. M., M.A., B.Ch.,  
D.M. Ox., F R.C.P. Prof. (L.).
- Vines, H. W. C., M.A., M.D., B.Ch.  
Camb., L.R.C.P., M.R.C.S.  
(C.).
- Warwick, W. T., M.A., M.B.  
Camb., F.R.C.S (M.).
- Webb, R. A., Ph.D Camb., A.B.  
Tennessee, M.D. Johns H.,  
L R C.P., M.R.C.S.  
Prof. (LW.).
- Woods, W. W, L.R.C.P., M.R.C.S.  
(Morbid Histol.) (L.).
- Wright, G. P, B.A, D.M, B.Ch.  
Ox. Sir W. Dunn Prof. (G.),
- Pathology, Chemical*
- Harrison, G. A., B.A, M D., B.Ch.  
Camb., L.R.C.P, M.R.C.S.  
Reader (B.).
- Lawrence, R. D., M.A., M.D., Ch.B.  
Aberd., F.R.C.P. (KM.).
- Marrack, J. R., D.S.O., M.C.,  
M A, M D. Camb. Prof. (L)
- Pathology, Experimental*
- Chick, Harriette, C.B.E., D.Sc.  
Lond. and Manc. (L.).
- Kennaway, E. L., B.A., M.D. Ox,  
D.Sc., F.R.S. (Can.).
- Wright, Sir Almroth E., K.B.E.,  
C.B., B.A, Sc.D., M.D. Dub.,  
LL.D. Belf. & Ed., F.R.S.  
Prof. (SM.).
- Pharmacognosy*
- Wallis, T. E., B.Sc., F.I.C.  
Reader (P).
- Pharmacology, v. also Med.*
- Berry, H., B.Sc. (Pharmaceutics).  
Reader (P.).
- Dale, Sir H.H., C.B.E., M.A., M.D.,  
B.Ch. Camb., LL.D. Edin.,  
D.Sc. Sheff., F.R.C.P., F.R.S.  
(MR.).
- Davis, H, B Sc (UM.).
- Gaddum, J. H., M.A. Camb.,  
L.R.C.P., M.R.C.S.  
Prof. (P.).
- Hamill, P., M.A., M.D. Camb.,  
D.Sc., F.R.C.P. (B.).

- Linnell, W. H., M.Sc., Ph.D. Durh. Reader (P.).  
 Mutch, N., M.A., M.D., B.Ch. Camb., F.R.C.P. (G.).  
 Scarborough, Eleanor M., M.Sc., M.B., B.S. Reader (LW.).  
 Woolley, V. J., M.A., M.D. Camb. (T.).
- Physics*  
 Brinkworth, J. H., D.Sc., A.R.C.S. (T.).  
 Hopwood, F. L., B.Sc. Wales, D.Sc. Prof. (B).  
 Mayneord, W. V., M.Sc. Birm. (Applied to Med. Radiol.) Reader (Can.).  
 Russ, S., C.B.E., D.Sc. Joel Prof. (M.).  
 Stead, G., M.A. Camb. Reader (G.).  
 White, W. H., M.A. Camb., B.Sc., A.R.C.S. (SM.).
- Physical Medicine*  
 Clayton, E. B., M.B., B.Ch. Camb. (KM.).  
 Cumberbatch, E. P., M.A., B.M., B.Ch. Ox., F.R.C.P. (B).  
 Woods, Sir Robert S., M.D., F.R.C.P. (L.).
- Physiology*  
 Bond, Muriel, M.Sc. (LW.).  
 Crowden, G. P., M.Sc., L.R.C.P., M.R.C.S. Reader (H.).  
 Cullis, Winifred C., C.B.E., M.A. Camb., D.Sc. Prof. (LW.).  
 Dale, Sir H. H., C.B.E. (also *Pharmacology*) (MR.).  
 Harris, D. T., B.Sc. Wales, M.B., Ch.B. Manc., D.Sc., M.B., B.S. Prof. (L.).  
 Hartridge, H., M.A., Sc.D., M.D., B.Ch. Camb., M.R.C.P., F.R.S. Prof. (B.).  
 Hewer, Evelyn E., D.Sc. (*Histology*) Reader (LW.).  
 Huggett, A. St. G. J. McC., D.Sc., Ph.D., M.B., B.S., L.R.C.P., M.R.C.S. Prof. (SM.).
- McSwiney, B. A., B.A., Sc.D., M.B., B.Ch., B.A.O. Dub. Prof. (T.).  
 Reid, C., M.A., D.Sc., M.D. Aberd., D.P.H. Camb. Reader (L.).  
 Smart, W. A. M., B.Sc., M.B., B.S., L.R.C.P., M.R.C.S. (L.).  
 Spurrell, W. R., M.Sc., M.B., M.S., F.R.C.S. Reader (G.).  
 Wright, S., M.D., M.R.C.P., M.R.C.S. Prof. (M.).
- Protozoology* [(H.).  
 Robertson, A., M.B., Ch.B. Edin.
- Psychology, Medical Industrial*  
 Culpin, M., M.D., F.R.C.S. Prof. (H.).
- Radiology*  
 Blackman, S., M.R.C.S., L.R.C.P., D.M.R.E. Camb. (D.).  
 Coldwell, W. H., M.B., B.S., L.R.C.P., M.R.C.S., D.M.R.E. Camb. (W.).  
 Davies, H. W., M.A., L.R.C.P., M.R.C.S. (KM.).  
 Fildes, G., M.B., Ch.B. Manc., D.M.R.E. Camb. (T.).  
 Finzi, N. S., M.B., L.R.C.P., M.R.C.S., L.S.A., D.M.R.E. Camb. (B.).  
 Gage, H. C., M.R.C.S., L.R.C.P. (SM.).
- Hodgson, H. K. G., C.V.O., M.B., B.S. Durh., D.M.R.E. Camb., M.R.C.P. (M.).  
 Levitt, W. M., M.D., B.Ch. N.U.I., M.R.C.P., D.M.R.E. Camb. (B.).  
 Morison, J. M. W., M.D., C.M. Glas., D.M.R.E. Camb., F.R.C.P. Edin. Prof. (Can.).  
 Reynolds, R. J., C.B.E., D.M.R.E. Camb., M.B., B.S., L.R.C.P., M.R.C.S. (C.).  
 Salmond, R. W. A., O.B.E., M.D., Ch.M. Aberd., D.P.H., D.M.R.E. Camb. (UM.).

- Vilvandr , G. E., L.R.C.P., M.R.C.S. (L.).  
 Webster, J. H. D., M.D., Ch.B. Edin., F.R.C.P. Edin. (M.).  
 White, J. D., M.B., Ch.B. Edin. (BP.).
- Surgery*, v. also Dis. of Child.
- Back, I., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).  
 Ball, W. G., F.R.C.S. (B.).  
 Barrett, N. R., M.A., M.B., M.Ch. Camb., L.R.C.P., F.R.C.S. (T.).  
 Barrington, F. J. F., M.B., M.S., F.R.C.S. (UM.).  
 Barry, Geraldine M., M.B., M.S., F.R.C.S. (LW.).  
 Brock, R. C., M.B., M.S. (G.).  
 Bromley, L., M.A., M.B., M.Ch. Camb., F.R.C.S. (G.).  
 Broster, L. R., O.B.E., M.A., M.D., M.Ch. Ox., F.R.C.S. (C.).  
 Bryan, C. W. G., M.C., F.R.C.S. (SM.).  
 Burns, B. H., B.A., B.Ch. Camb., F.R.C.S. (SG.).  
 Butler, E. C. B., M.B., B.S., L.R.C.P., F.R.C.S. (L.).  
 Buxton, N. St. J. G. D., M.B., B.S., F.R.C.S. (KM.).  
 Cade, S., F.R.C.S. (W.).  
 Cairns, H. W. B., M.B., B.S. Adel., F.R.C.S. (L.).  
 Carling, E. R., M.B., B.S., F.R.C.S. (W.).  
 Colquhoun, G. R. E., F.R.C.S. (SG.).  
 Cope, V. Z., B.A., M.D., M.S., F.R.C.S. (SM.).  
 Corbett, R. S., M.A., M.B., M.Chir. Camb., F.R.C.S. (B.).  
 Crook, E. A., M.A., M.B., M.Ch. Ox., F.R.C.S. (C.).  
 Davies-Colley, R., C.M.G., M.A., M.Ch. Camb., F.R.C.S. (G.).  
 Dix, V. W., M.A., M.B., B.Ch. Camb., F.R.C.S. (L.).  
 Doherty, W. D., M.A., M.Ch. Camb., F.R.C.S. (G.).  
 Donald, C., M.D., Ch.M. Aberd., F.R.C.S. (L.).  
 Eckhoff, N. L. B. V., M.B., M.S., F.R.C.S. (G.).  
 Edwards, A. T., M.A., M.D., M.Ch. Camb., F.R.C.S. (L.).  
 Edwards, H. C., M.B., M.S., F.R.C.S. (KM.).  
 Evans, A. H., O.B.E., M.D., M.S., F.R.C.S. (W.).  
 Everidge, J., O.B.E., F.R.C.S. (KM.).  
 Ewart, G. A., B.A. Camb., F.R.C.S. (SG.).  
 Fedden, W. F., M.B., M.S., F.R.C.S. (SG.).  
 Fitzsimons, R. A., B.Sc., M.B., B.S., F.R.C.S. (C.).  
 Fitzwilliams, D. C. L., C.M.G., M.D., Ch.M. Edin., F.R.C.S., F.R.C.S.E. (SM.).  
 Flemming, C. W., M.Ch. Ox., F.R.C.S. (UM.).  
 Frankau, C. H. S., C.B.E., D.S.O., M.B., M.S., F.R.C.S. (SG.).  
 Gardham, A. J., M.B., M.S., F.R.C.S. (UM.).  
 Gordon-Taylor, G., O.B.E., M.A. Aberd., B.Sc., M.B., M.S., F.R.C.S. (M.).  
 Gould, E. L. P., M.A., M.Ch., D.M. Ox., F.R.C.S. (M.).  
 Handfield-Jones, R. M., M.C., M.B., M.S., F.R.C.S. (S.M.).  
 Henry, A. K., M.B., M.Ch., B.A.O. Dub. Reader (BP.).  
 Hosford, J. P., M.B., M.S., F.R.C.S. (B.).  
 Howard, R. J., C.B.E., M.B., M.S., F.R.C.S. (L.).  
 Hudson, R. V., F.R.C.S. (M.).  
 Hughes, E. C., O.B.E., M.A., M.Ch. Camb., F.R.C.S. (G.).

- Hume, J. B., M.B., M.S., F.R.C.S. (B.).  
 Hunter, J. B., M.C., M.A., M.B., M.Ch. Camb., F.R.C.S. (KM.).  
 Joll, C. A., M.B., B.Ch. Brist., B.Sc., M.B., M.S., F.R.C.S. (LW.).  
 Kendall, A. W., M.B., M.S., L.R.C.P., F.R.C.S. (KM.).  
 Keynes, G. L., M.A., M.D. Camb., F.R.C.S. (B.).  
 Lake, N. C., D.Sc., M.D., M.S., F.R.C.S. (C.).  
 Lewis, Emily C., M.B., M.S., F.R.C.S. (LW.).  
 Lindsay, E. C., C.B.E., B.Sc. N.Z., M.B., B.S., F.R.C.S. (L.).  
 MacLeod, A. C., M.B., B.S., F.R.C.S. (C.).  
 Marnham, R., M.Ch. Camb., F.R.C.S. (SG.).  
 Marshall, C. J., M.D., M.S., F.R.C.S. (C.).  
 Martin, E. K., M.B., M.S., F.R.C.S. (UM.).  
 Massie, G., M.B., M.S., F.R.C.S. (G.).  
 Maybury, B. C., M.B., B.S., F.R.C.S. (T.).  
 Milne, R., M.D., M.S., F.R.C.S. (L.).  
 Mitchiner, P. H., M.D., M.S., F.R.C.S. (T.).  
 Moore, A. M. A., F.R.C.S. (L.).  
 Mullally, G. T., M.C., M.S., F.R.C.S. (W.).  
 Neligan, G. E., M.C., M.A., M.B., B.Ch. Ox., F.R.C.S. (L.).  
 Nicholls, M. F., M.A., M.Ch. Camb., F.R.C.S. (SG.).  
 Norbury, L. E. C., O.B.E., M.B., B.S., F.R.C.S. (LW.).  
 Northfield, D. W. C., M.B., M.S., F.R.C.S. (L.).  
 Ogilvie, W. H., M.A., M.D., M.Ch. Ox., F.R.C.S. (G.).  
 Page, C. M., D.S.O., M.B., M.S., F.R.C.S. (T.).  
 Pannett, C. A., B.Sc., M.D., B.S., F.R.C.S. Prof. (SM.).  
 Patey, D. H., M.B., M.S., F.R.C.S. (M.).  
 Perry, A. C., M.B., M.S., F.R.C.S. (L.).  
 Pilcher, R. S., M.B., M.S., M.R.C.P., F.R.C.S. (UM.).  
 Porritt, A. E., M.A., M.B., M.Ch. Ox., L.R.C.P., F.R.C.S. (SM.).  
 Riches, E. W., M.C., M.B., M.S., F.R.C.S. (M.).  
 Roberts, J. E. H., O.B.E., M.B., B.S., F.R.C.S. (B.).  
 Robinson, R. H. O. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (T.).  
 Romanis, W. H. C., M.A., M.B., M.Ch. Camb., F.R.C.S. (T.).  
 Ross, J. P., M.B., M.S., F.R.C.S. Prof. (B.).  
 Shattock, C. E., M.D., M.S., F.R.C.S. (LW.).  
 Slesinger, E. G., O.B.E., B.Sc., M.B., M.S., F.R.C.S. (G.).  
 Souttar, H. S., C.B.E., M.A., D.M., M.Ch. Ox., F.R.C.S. (L.).  
 Spencer, W. G., O.B.E., M.B., M.S., F.R.C.S. (W.).  
 Taylor, J., O.B.E., M.B., M.S., F.R.C.S. (UM.).  
 Thomas, C. P., F.R.C.S. (W.).  
 Trotter, W. B. L., M.D., M.S., F.R.C.S., F.R.S. (to 30.9.38) Prof. (UM.).  
 Turner, G. G., M.B., D.Ch. Durh., F.R.C.S., F.A.C.S. Prof. (BP.).  
 Turner, W., M.B., M.S., F.R.C.S., L.S.A. (W.).  
 Vick, R. M., O.B.E., T.D., M.A., M.Ch. Camb., F.R.C.S. (B.).  
 Wakeley, C. P. G., D.Sc., F.R.C.S. (KM.).  
 Walton, Sir A. James, K.C.V.O., B.Sc., M.B., M.S., F.R.C.S. (L.).

- Warwick, W. T., M.A., M.B., B.Ch. Camb., F.R.C.S. (M.).  
 Evans, Thomas James, M.A. Ox. (G.).  
 Webb-Johnson, Sir Alfred E., C.B.E., D.S.O., T.D., M.B., Ch.B. Manc., F.R.C.S. (M.).  
 Wigglesworth, V. B., M.A., M.D., B.Ch. Camb. (Entomol.) Reader (H.).  
 Williams, B. W., M.B., B.Ch. Ox., F.R.C.S. (T.).  
 Williams, G. E. O., M.D., M.S., F.R.C.S. (UM.).  
 Dentistry  
 Williams, G. E. O., M.D., M.S., F.R.C.S. (UM.).  
 Dental Anat.  
 Wilson, H. W., M.B., M.S., F.R.C.S. (B.).  
 Pitts, A. T., D.S.O., L.R.C.P., M.R.C.S., L.D.S. (D.).  
 Wood, H. L., M.B., M.S., F.R.C.S. (KM.).  
 Shefford, A. D. E., L.D.S. R.C.S. Eng. (UM.).  
 Wright, A. D., M.B., M.S., F.R.C.S., D.T.M. and H. (SM.).  
 Dental Materia Medica  
 Tropical Medicine  
 Coleman, F., M.C., L.R.C.P., M.R.C.S., L.D.S. (BD.).  
 Christophers, Sir Samuel R., C.I.E., O.B.E., M.B., Ch.B. Manc., F.R.S., K.H.P. (Malarial Studies) Prof. (H.).  
 Doubleday, F. N., L.R.C.P., M.R.C.S., L.D.S. (G.).  
 Fairley, N. H., O.B.E., D.Sc., M.D. Melb., F.R.C.P., D.T.M. and H. Camb. (H.).  
 Dental Mechanics  
 Manson-Bahr, P. H., G.M.G., D.S.O., M.A., M.D. Camb., F.R.C.P., D.T.M. and H. Camb. (H.).  
 Bull, F. B., L.R.C.P., M.R.C.S., L.D.S. (G.).  
 Chapman, H., L.D.S. (Orthodontics) (L.).  
 Edwards, P. W. (D.).  
 Newham, H. B. G., C.M.G., M.D. Durh., M.R.C.P., M.R.C.S., D.P.H., D.T.M. and H. Camb. (H.).  
 Dental Prosthetics  
 Anwyll-Davies, T., M.D., B.S., M.R.C.P., M.R.C.S. (T.).  
 Allen, A. G., L.D.S. (L.).  
 Burke, E. T., D.S.O., M.B., Ch.B. Glas. (L.).  
 Fairbank, J. G. A., L.R.C.P., M.R.C.S., L.D.S. (B.).  
 Lloyd, V. E., M.C., M.B., B.S., L.R.C.P., M.R.C.S. (G.).  
 Fenn, H. R. B., L.D.S. Liv., D.D.S. Penn. Prof. (G.).  
 McElligott, G. L. M., M.A. Ox., L.R.C.P., M.R.C.S. (SM.).  
 Fry, W. K., M.C., L.R.C.P., M.R.C.S., L.D.S. (G.).  
 O'Donovan, W. J., O.B.E., M.D., M.R.C.P., M.R.C.S. (L.).  
 Milne, J. B., L.D.S. Edin. (KM.).  
 Walker, K. M., M.B., B.Chir. Camb., F.R.C.S. (B.).  
 Dental Surgery  
 Zoology, v. also Protozoology  
 Buxton, P. A., M.A. Camb., L.R.C.P., M.R.C.S. (Med. Entomol.) Prof. (H.).  
 Ainsworth, N. J., M.C., L.R.C.P., M.R.C.S., L.D.S. (D.).  
 Bennett, Sir Norman G., M.A., M.B., B.Ch. Camb., L.R.C.P., M.R.C.S., L.D.S. (D.).  
 Buxton, J. L. D., L.M.S.S.A., L.D.S. (UM.).  
 Clapham, H. D., L.R.C.P., M.R.C.S., L.D.S. (L.).  
 Claremont, L. E., M.D.S. Brist., L.R.C.P., M.R.C.S., L.D.S. (D.).  
 Coe, W. E., D.M.D. Harv., L.D.S. (KM.).

Fickling, B. W., L.R.C.P., M.R.C.S., L.D.S. (D.)	McLeod, A. C. R., L.D.S. (UM.)
Fish, E. W., M.D., Ch.B., L.D.S. Manc., D.Sc. (SM.)	Marsh, L. R., L.D.S. R.C.S. Eng. (KM.)
Greenish, V. A. F., L.D.S. (D.)	Milne, J. B., L.D.S. Edin. (KM.)
Hankey, G. T., L.R.C.P., M.R.C.S., L.D.S. (BL.)	Moore, A. S., L.D.S. (KM.)
Henry, C. B., L.R.C.P., M.R.C.S., L.D.S. (D.)	Packham, A. L., L.R.C.P., M.R.C.S., L.D.S. (D.)
Herbert, W. E., L.R.C.P., M.R.C.S., L.D.S.	Pritchard, G. B., L.R.C.P., M.R.C.S., L.D.S. (Histol.) (G.)
Reader (G.)	Riddett, S. A., M.C., L.R.C.P., M.R.C.S., L.D.S. (D.)
Herman, W. S., B.A. Camb., L.R.C.P., M.R.C.S., L.D.S. (L.)	Ross, W. S., L.D.S. (D.)
James, J., L.D.S. R.C.S. Eng. (KM.)	Smale, H., L.R.C.P., M.R.C.S., L.D.S. (SM.)
James, W. W., O.B.E., F.R.C.S., L.D.S. (M.)	Sprawson, E. C., M.C., D.Sc., L.R.C.P., M.R.C.S., L.D.S. (L.)
Jones, A. K. I., L.R.C.P., L.D.S. (UM.)	Steadman, S. F. St. J., L.R.C.P., M.R.C.S., L.D.S., D.P.H. (D.)
Keizer, W. R., L.R.C.P., M.R.C.S., L.D.S. (L.)	Stobie, H., L.R.C.P., M.R.C.S., L.D.S. (D.)
Lloyd-Williams, P., M.R.C.S., L.R.C.P., L.D.S. (T.)	Walker, D. G., M.B., B.Ch., B.A.O., B.Dent.Sc. Dub. (D.)

(B), (Bm.), etc., v. *Note* on p. 197.

## GENERAL INFORMATION

### *Schools*

BETHLEM ROYAL HOSPITAL, Monks Orchard, Eden Park, nr. Beckenham, Kent. *Physician Superintendent*—J. G. Porter Phillips, M.D., B.S., F.R.C.P.

Founded 1247. A centre for the teaching and practice of *Psychological Medicine*. Two courses of lectures and practical instruction for D.P.M. are held annually by arrangement: Autumn Course, Sept. to Dec.; Spring Course, Jan. to end of March. Daily clinical instruction classes. Pathological Laboratory. Psychological Laboratory research work carried out. X-ray apparatus.

BRITISH POSTGRADUATE MEDICAL SCHOOL, Ducane Rd., Hammersmith, W.12. Dean—Col. A. H. Proctor, D.S.O., M.D., M.S., F.R.C.S.E., I.M.S. Secy.—Paymaster Captain W. R. Scotland, R.N. (retired.) Appointed and Recognized Teachers (*v. supra*), 12; others, 16.

Incorporated by Royal Charter 1931, for postgrad. instruction in clinical medicine, including Surgery, Obstetrics and Gynaecol., Pathol. and Radiol. A School of the Univ. for 5 yrs. from March 1, 1934. Students may be of either sex but must hold a Univ. degree or a qualification registrable in this country.

The School is associated with the Hammersmith Hospital, L.C.C., consisting of 462 beds. Students can join the School at any time and for any period;

teaching daily in all Depts. from 10 A.M. to 4 P.M. Facilities also provided for research work approved by the Board of Studies. Refresher Courses for general practitioners are held from time to time. Courses of lectures in sp. subjects are arranged from time to time and are notified in the Journals.

**FEES.** Ordinary Hospital Practice: 6 gs. for 1 month, 12 gs. for 3 months, 21 gs. for 6 months. Refresher Courses: 5 gs.

A bureau has been established from which information regarding opportunities for postgraduate study in London can be obtained. Enquiries should be addressed to the Dean.

**CHARING CROSS HOSPITAL, Medical School, Charing Cross, W.C.2.**  
Dean—E. A. Crook, M.Ch., F.R.C.S. Secy.—Wyndham Edwards.

Founded 1821. Appointed and Recognized Teachers (v. *supra*)—27. *Fees*: entrance, 10 gs.; annual, 38 gs.; Students' Club, 4 gs. Scholarships, Exhibitions, and Prizes of approx. £1000 in value awarded annually. Six Registrarships, several Clinical assistantships and 27 House Posts filled annually. 300 beds; about 60 for paying patients to be added shortly. Admission restricted to 30 students per year (male students only). Each student is thereby assured of having a full complement of clinical material and is responsible for not less than 6 beds during clerkship and dressership.

**COLLEGE OF THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Sq., W.C.1.** Dean—.....

Founded 1842. Admitted as a School of the Univ. (in Pharmacy only) on Jan. 1, 1925. The School and the Pharmacological Laboratories were combined to form the College, Nov. 1932. Recognized Teachers—5 (v. *supra*); others—20. *Fees*: Course for the Chemist and Druggist Qualifying Examn., £47:12:6d.; for the Pharmaceutical Chemist Qualifying Examn. and for the B.Pharm. degree (2 years), £47:12:6d. p.a. Open to women students also.

**GUY'S HOSPITAL, Medical School, St. Thomas's St., Borough, S.E.1.**  
Dean—T. J. Evans, M.A. Secretary—J. H. E. Winston, F.C.I.S.

Founded in connexion with St. Thomas's, 1769; as a separate School, 1825. Appointed and Recognized Teachers—45 (v. *supra*). Library, 10,000 vols. Museum, 5000 specimens and 2000 drawings. 647 beds. Fully equipped Dental Dept. with Lab. *Fees*: entrance, £28; annual, £49. Foundations in aid of Research: Lect'ship in Path., approx. £1200 p.a.; in Clin. Chem., £250; Trav. Studentship, £100; Studentship in Mat. Med., £60; in Path., £250; Dem'rsip in Clin. Chem., £150; in Path., £320; Med. Research Fellowship, etc. Numerous prizes and entrance scholps. Resident *appointments*—numerous House appointments are made every 3 mths. from amongst the recently qualified students. *Residential* accommodation for 35 students. Furnished rooms, 19s. to 26s. *Students' Publication*: *G.H. Gazette*. Women students are not eligible for admission.

**KING'S COLLEGE HOSPITAL, Medical School, Denmark Hill, S.E.5.**  
Dean—J. A. Drake, M.D., F.R.C.P., D.P.H. Vice-Dean—C. E. Newman, M.A., M.D., F.R.C.P. Secy.—S. C. Ranner, M.A.

Appointed and Recognized Teachers—36 (v. *supra*); others—14. Full course in clinical and pathological work for degrees of London, Oxford, Cambridge, etc. (3 yrs.). *Fee* for complete course, £125. Twelve women students admitted annually. *Scholarships*: Scholarships of a total value of £1550 are offered annually (particulars on application). *Hostel* with accommodation for 80 men students. *Students' Publication*: *K.C.H. Gazette*.

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Rd., S.W.1. Director—Prof. Sir John C. G. Ledingham, C.M.G., M.B., D.Sc., Sc.D., F.R.C.P., F.R.S. Secy.—A. L. White.

Founded 1891 for Research into causation, prevention, and treatment of diseases of men and animals. Open to a limited number of approved Research students of both sexes, usually without fee. Appointed and Recognized Teachers—8 (*v. supra*); 12 other members of scientific staff. There is a Research Studentship in Bacteriology and one in Bio-Chemistry, *v. App. II*.

LONDON HOSPITAL, Medical College and Dental School, Turner St., E.1. Dean—A. E. Clark-Kennedy, M.D., F.R.C.P. Secy.—E. J. Burdon.

Founded 1781. Appointed and Recognized Teachers—49 (*v. supra*); others—48. Library includes Thompson Yates Research Library containing chief foreign periodicals for Anat., Physiol., and Path. Laboratories include those of the Bernhard Baron Inst. of Path. for Advanced Research. 850 beds. *Fees*: entrance, 10 gs.; annual, £48. 39 scholps. and prizes. Hostel for 78 students. 160 appointments available for students. *Students' Publication*: *L.H. Gazette*. Women students are not eligible for admission.

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, 8 Hunter St., Brunswick Sq., W.C.1. Dean—Miss E. Bolton, C.B.E., M.D., B.A. Warden and Secy.—Miss N. Moller, M.A.

Founded 1874. Appointed and Recognized Teachers—26 (*v. supra*); others—32. 327 beds. Special arrangements with several other Hospls. for Clin. study and dresserships, etc. Research Laboratories: Anat., Biol., Chem., Obst. and Gyn., Path., Pharmacol., Physics, Physiol. Courses for B.Sc. Hons. in Anat. and Physiol., as well as for Med. degrees and diplomas. *Fees*: £50 p.a. throughout the course. Students' chambers provided for 80 students. *Students' Publication*: *L.S.M. Gazette*. Post-graduate Scholarship in Medicine, *v. App. II*.

LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE (Incorporating the Ross Institute), Keppel Street (Gower Street), W.C.1. Dean—Prof. W. W. Jameson, M.A., M.D., F.R.C.P. Secy.—G. R. Oake, B.A.

This School was constituted by Royal Charter on April 1, 1924. In accordance with the terms of the Charter the School was recognized on Nov. 18, 1931, in the Faculty of Science and in the Faculty of Medicine in so far as the branches of Public Health, Hygiene, State Medicine, and Tropical Medicine are concerned. The school was built and equipped with a sum of \$2,000,000 provided by the Rockefeller Foundation, who made the gift on the understanding that the British Government would make adequate grants for staffing and maintaining the School. It includes the following depts.: (1) Public Health; (2) Bio-Chemistry and Chemistry as applied to Hygiene; (3) Bacteriology and Immunology; (4) Medical Zoology; (5) Epidemiology and Vital Statistics; (6) Clinical Tropical Medicine; (7) Ross Institute of Tropical Hygiene. The School provides for the training of public health officers, and for research in various branches of preventive medicine. Appointed and Recognized Teachers—30 (*v. supra*).

The Chair of Public Health has been endowed by the Prudential Assurance Company for a period of 7 yrs., and is known as the Prudential Chair of Public Health. The Professor of Helminthology, whose Chair has been endowed by



Mr. W. J. Courtauld, is known as "The William Julien Courtauld Professor of Helminthology."

The courses of study in all branches of the work of the School are given in the premises in Keppel St. (Gower St.), which has excellent labs. and research rooms, a fine lecture theatre and classrooms, library and museum.

*Diploma in Tropical Medicine and Hygiene.* On Aug. 1, 1924, the School took over from the Seamen's Hospital Society the old School of Tropical Medicine. In the various hospls. of the Seamen's Hospital Society are always numerous cases of Trop. Diseases available for teaching purposes. Students must ordinarily be qualified med. practitioners. The funds available for encouraging research include the Tropical Diseases Research Fund, the Wandsworth Bequest, the Stanley Memorial and the Avebury Memorial Funds. (See Appendix II.) Research expeditions are equipped and maintained by the School. There are 3 sessions of 3 months each (Laboratory and Clin. instruction) and 2 of 2 months each (Trop. Hyg.) designed for the D.T.M. and H. of the Conjoint Board and for candidates for the M.D. in Trop. Med. *Fees* : £40 for the whole course, or £25 and £15, respectively.

*Diploma in Public Health.* The course of study commencing late September extends over a period of 9 months' whole-time study, and is so arranged that students will be able to comply with all requirements of the Gen. Med. Council. The School provides instruction in Bacter., Parasit. (including Med. Ent.), Indust. Physiol. and Psychol., Chem., Physics, Meteorol., and Climatol., and in Hyg., Pub. Health Admin., Epidemiol. and Vital Stats., Infectious Diseases and Sanitary Construction and Planning. Included in the syllabus are a number of special lectures by recognized experts in various public health problems, and a number of visits to carefully selected places of outstanding public health interest. The course of study is designed to enable candts. to proceed to the Academic Dipl. in Pub. Health instituted by the Univ. Fee for course, 54 gs.

*Diploma in Bacteriology.* The special course of study for the Dipl. in Bacteriol. covers a period of one academic year beginning in October. Fee for course, £47 : 15s.

*Diploma in Psychology (Industrial).* Special courses of study by arrangement.

In addition to the students taking the Diploma Courses, many are admitted to special courses of study and research in the various branches of the work of the School.

MAUDSLEY HOSPITAL, Denmark Hill, S.E.5. Medical Superintendent—E. Mapother, M.D., F.R.C.P., F.R.C.S. Director of Medical School and Central Pathological Laboratory—F. L. Golla, M.B., F.R.C.P.

Founded by the London County Council for research in Psychological Medicine, the teaching of this subject, and the treatment, on a voluntary basis, of those suffering from neuroses and from recoverable forms of mental disorder. The Hospital, which is similar in general character to the Neurological and Psychiatric Clinics of the Continent and America, and the associated Pathological Department, which serves all the Mental Hospitals and Mental Deficiency Institutions of the County of London (containing 35,000 patients), were admitted as a School of the University for research in Psychological Medicine on May 7, 1924. The Hospl. has 235 beds and an out-patient department. The Path. Dept. includes a Library and Laboratories for anatomical, bio-chemical, bacteriological, and experimental investigations. Diploma and other courses for undergraduate and graduate students. Facilities for research and for gaining experience. Ordinarily no charge is made for research work, and special grants-in-aid may be made.

MIDDLESEX HOSPITAL, Medical School, Mortimer St., W.1. Dean—H. E. A. Boldero, M.A., D.M., F.R.C.P. School Secy.—R. A. Foley, F.C.C.S.

Founded 1835. Appointed and Recognized Teachers—40 (v. *supra*); others—13. Over 580 beds, including *Cancer wing* (90); Bland-Sutton Institute of Path. with Museum and Labs.; Barnato-Joel Research Labs.; the S. A. Courtauld Institute of Biochemistry; the Ferens Institute of Otolgy. Scholarships, etc., worth over £1000 p.a. *Fees*: Entrance, £25; 5 annual, £45. No accommodation for women students.

THE ROYAL CANCER HOSPITAL (FREE), Fulham Rd., S.W.3. *Director of the Research Inst.*—Prof. E. L. Kennaway, D.Sc., M.D., F.R.S. *Research Chemist*—Prof. J. W. Cook, D.Sc., Ph.D., F.I.C. *Director of the Radiological Dept.*—Prof. J. M. Woodburn Morison, M.D., F.R.C.P.Ed., D.M.R.E. Camb.; *Head of Physics Dept.*—W. V. Mayneord, D.Sc., F.Inst.P. Secy.—C. Cobbold, M.A.

Founded 1851. A School of the Univ. for the purpose of research in (i.) Advanced Pathology, and (ii.) Radiology in relation to malignant disease.

ROYAL DENTAL HOSPITAL OF LONDON SCHOOL OF DENTAL SURGERY, 32 Leicester Sq., W.C.2. Dean—H. Stobie, L.R.C.P., M.R.C.S., L.D.S. Secy. Superintendent—E. Moore.

Founded 1858. Recognized Teachers—14 (v. *supra*); others—30. Library, Museum, and Laboratories. X-ray Dept. Students are admitted for the curriculum for the B.D.S. Degree and the L.D.S. Diploma. Four Entrance Scholarships of £50 p.a. tenable for 2 yrs. and four scholarships of £25 p.a. tenable during a student's 3rd and 4th yrs. at the School have been instituted. *Fees*: for the L.D.S., £73:10s. for 2 yrs.' Hospl. practice and Lectures, or, including 2 yrs.' Dent. Mechanics, £213:10s.; for the B.D.S., £35 annually for first two yrs., £36:15s. for third yr.; £71:15s. for fourth yr. The fees at the Genl. Hospital for lectures are not included.

ST. BARTHOLOMEW'S HOSPITAL, Medical College, West Smithfield, E.C.1. Dean—W. Girling Ball, F.R.C.S. Warden—C. F. Harris, M.D., F.R.C.P.

Founded 1662. Appointed and Recognized Teachers—43 (v. *supra*). *Library*: the largest of the kind in London. *Museum*: 12,000 specimens, 2000 casts and drawings. *Laboratories*, with facilities for research in Path., Pharmacol., etc. 762 beds. *Fees*: 220 gs. for whole curriculum; from 1st M.B., 190 gs. *Scholarships*: total annual value over £1900; four for Research (in Med., Surg., Path., etc.) are open to graduates of any Univ. studying at Bart.'s. Large Athletic Grounds. Students' Union, including Athletic Clubs and Abernethian Soc. *Publications*: *Hospital Reports*, annually, and *Journal* (Students'), monthly. Women students are not eligible for admission.

ST. GEORGE'S HOSPITAL, Medical School, Hyde Park Corner, S.W.1. Dean—M. F. Nicholls, M.A., M.Chir., F.R.C.S. Secy.—S. A. Williamson.

Founded 1752. Appointed and Recognized Teachers—19 (v. *supra*); others—19. 440 beds. *Fees*: entrance for Clinical course, 10 gs. Annual composition, 40 gs. Scholarships, etc., worth £180 p.a. for encouragement of research. *St. G.'s Gazette* is issued 3 times a year. Women students are not eligible for admission.

ST. MARY'S HOSPITAL, Medical School, Paddington, W.2. Dean—Sir Charles Wilson, M.C., M.D., F.R.C.P. Secy.—B. E. Matthews, B.A.

Founded 1852. Appointed and Recognized Teachers—40 (v. *supra*); others—25. *Fees*: Course for 1st M.B., 3 terms, 20 gs.; entire curriculum, £205. *Scholarships*: £210 (2), £200 (2), £25. *Clinical Units* in Med. and Surg. established in 1920–21. Entry is now restricted to students reading for Univ. degrees. *Students' Publication*: *St. M. H. Gazette*.

ST. THOMAS'S HOSPITAL, Medical School, Albert Embankment, S.E.1. Dean—Prof. L. S. Dudgeon, C.M.G., C.B.E. Secretary to the Medical School—R. J. C. Thompson, C.M.G., D.S.O., M.D., M.R.C.P.

Founded in 13th century. Recognized Teachers—37 (v. *supra*); others—36. Path. Dept. includes Museum with 5000 specimens. Large Laboratories for teaching and research. Hospl. beds, 664, in addition to teaching facilities at Lambeth Hospital and St. James Hospital, Balham. *Fees*: Tuition per annum, £50. Hostel accommodation for 50. Women students are not eligible for admission.

TROPICAL MEDICINE, LONDON SCHOOL OF HYGIENE AND, v. *supra*.

UNIVERSITY COLLEGE HOSPITAL, Medical School, University Street, W.C.1. Dean—Gwynne Williams, M.S., F.R.C.S. Vice-Dean—W. J. Pearson, D.S.O., M.C., M.A., M.D., F.R.C.P. Sub-Dean for Dental Students—J. L. Dudley Buxton, L.M.S.S.A., L.D.S., R.C.S. Eng. Secy.—R. V. Jenkins, B.A.

The Med. School was separated from the Univ. Coll. Med. Faculty in 1905. A School of Final Medical Studies providing the full course in Clinical and Pathological work for the degrees of the Univs. of London, Oxford, Cambridge and other British Univs. and for the Diplomas of the Royal Colleges of Physicians and Surgeons. Recognized Teachers—30 (v. *supra*); others—52. *Library*, 30,000 vols. The *Charles Graham Laboratories*, established in 1902 for research in Path. 36 Resident Appointments annually. Assistantships in the Clinical Units at salaries from £250 to £900 p.a. *Fees*: course for Final M.B., B.S. or Conjoint Diploma—inclusive to cover complete Clinical Course, £45 p.a. for 3 yrs. Oxford and Cambridge students who have completed their course in Pathology: £40 p.a. for 3 yrs. *Scholarships, etc.*: annual value, £1250. *Students' Hostel*: Adjoining the Medical School is a specially equipped Hostel solely for students in the School. Large bed-sitting rooms are available as well as Common Rooms. All meals are provided in the School Refectory. A member of the staff resides at the Hostel. *Residence* for Maternity students. *Publications*: *Prospectus*, *Transactions of Research Dept.*, *Magazine* (Students'). 12 women students admitted annually.

The NATIONAL DENTAL HOSPITAL, founded in 1861, became the Dental Department of Univ. College Hospl. in 1914. Address: 187–191 Gt. Portland St. and 59 Devonshire St., W.1.

WESTMINSTER HOSPITAL, Medical School, Horseferry Rd., Westminster, S.W.1. Dean—A. Abrahams, O.B.E., M.A., M.D., F.R.C.P. Secy.—J. C. Reeves.

Founded 1834. Recognized Teachers—28 (v. *supra*); others—13. *Fees*: £42 p.a. and 13 gs. entrance. *Scholarships* to the value of £600 offered annually. Male students only.

*Institutions with Recognized Teachers*

BROMPTON HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Fulham Rd., S.W.3. *Dean*—W. J. Fenton, M.D., F.R.C.P.

Recognized Post-graduate School of the University.

Founded 1841. Recognized Teachers—12 (*v. supra*).

Post-graduates may attend the Practice of the Hospital in all Depts. Fee, 1 g. per month.

The following Courses and Demonstrations are arranged : (i.) A week's Post-graduate Course in Surgery, comprising operations, ward-rounds, lectures, demonstrations of special techniques. Held in May and Dec. Fee, 5 gs. (ii.) A week's intensive Post-graduate Course of lectures and demonstrations. Held in Jan. and Oct. Fee, 3 gs. (iii.) Special Courses for candidates for the M.R.C.P. Held 4 times a year, one month before each examn. Each Class is limited to 6 Post-graduates. Fee, £3 : 13 : 6. (iv.) Special Courses for candidates for the Conjoint Board's examn. Held 4 times a year, one month before each examn. Each Class is limited to 6 Undergraduates. Fee, £1 : 11 : 6. (v.) A Special Post-graduate Course in Artificial Pneumothorax Therapy is arranged to take place monthly. Each course is limited to 3 Post-graduates. Fee, 5 gs.

Arrangements can be made for Post-graduates to take a Special Course in the Radiological Dept. and also at the Sanatorium.

Clinical Assts. are appointed for a period of 3 months to the Med., Surg. and Special Depts. Not less than 4 days a week should be allowed by holders of these appointments. Fee, 5 gs. for 3 months.

Further information may be obtained from the Dean.

HOSPITAL FOR SICK CHILDREN, Gt. Ormond St., W.C.1. *Dean*—W. G. Wyllie, M.D., F.R.C.P. *Secy.*—H. F. Rutherford.

Founded 1852. Recognized Teachers—3 (*v. supra*) ; others—16.

Recognized in Bact., Dis. of Children, Surg.

NATIONAL HOSPITAL FOR DISEASES OF THE NERVOUS SYSTEM, Queen Square, London, W.C.1. *Dean*—J. G. Greenfield, B.Sc., M.D., F.R.C.P. *Secy.*—G. H. Hamilton.

Founded 1859. Recognized Teachers—14 (*v. supra*) ; others—6.

Recognized in Med., Neurology, Ophth., Oto-Rhino-Laryng., Surg. 9-week courses are given twice a year for students taking the Diploma in Psychological Medicine.

ROYAL LONDON OPHTHALMIC HOSPITAL, City Rd., E.C.1. *Dean*—C. B. Goulden, O.B.E., M.D., F.R.C.S. *Secy.*—A. J. M. Tarrant.

Founded 1804. Recognized Teachers—4 (*v. supra*) ; others—8.

Recognized in Ophth. Students, 191.

NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, N.W.3, with associated Farm Laboratories at Mill Hill. *Director*—Sir H. H. Dale, C.B.E., LL.D., D.Sc., M.D., F.R.C.P., F.R.S.

Founded 1914. Recognized Teachers—3 (*v. supra*).

Research work in Physiol., Pharmacol., and Biochemistry ; Experimental Pathol., Bacteriol., and Protistol. ; Microscopy and Physical Methods ; and Biological Standards. All communications should be addressed to the Secy., Medical Research Council, 38 Old Queen St., S.W.1.

*See also* Appendix III. A. VII.

## FACULTY OF LAWS

The teaching of the Univ. has been arranged on an inter-collegiate basis, the Profs. and Teachers of Univ. and King's Colls. and of the London Sch. of Econ. dividing the work among them, indicated below by (U) (K) (E). For the evening teaching of Law, see also Birkbeck Coll., and for Indian and Ottoman Law, see Schl. of Oriental Studies.

### PROFESSORS, LECTURERS, ETC.

Chatfield, H. S., M.A. Ox. (K).	*Parry, D. Hughes, M.A., LL.M. Camb., B.A. Wales
*Chorley, R. S. T., M.A. Ox.	Prof. of English L. (E).
Cassel Prof. of Comml. and Indust. L. (E).	Phillips, O. H., M.A. Ox. and Dub., B.C.L. Ox., LL.B. Dub.
Davies, D. R. Seaborne, M.A. Camb., LL.B. Wales	Reader in English L. (K).
(Engl. L.) (E).	Plucknett, T. F. T., LL.B. Camb., M.A.
*Jennings, W. I., M.A., LL.B. Camb., LL.D.	Prof. of Legal Hist. (E).
Reader in English L. (E).	Potter, H., Ph.D. Birm., LL.B.
*Jolowicz, H. F., M.A. Ox., M.A., LL.D. Camb.	Reader in English L. (K).
Prof. of Roman L. and Lectr. in Jurispr. (U).	*Robson, W. A., B.Sc. (Econ.), LL.M., Ph.D.
*Keeton, G. W., M.A., LL.D. Camb.	Reader in Admin. L. (E).
Reader in English L. (U).	*Smith, H. A., D.C.L. Ox.
Morgan, J. H., B.A. Ox., M.A., D.L., K.C.	Prof. of Internat. Law (E).
Prof. of Constitutional L. (U).	*Vesey-FitzGerald, S.G., M.A. Ox., LL.D.
	Reader in Indian L. and L. of Palestine. (U).

In addition the following teachers of Law not recognized by the University are on the staffs of the several Colleges.

Crane, F. R., LL.B. (K).	Kiralfy, A. K., LL.M. (K).
Dold, G. W. F., B.C.L. Ox., M.A., LL.B. (Roman, Dutch L.) (U).	Latham, R. T. E., B.A. Melb. and Ox. (K).
*Gilbert, A. S., LL.M. (U).	Rogers, P. H. T., B.A., B.C.L. Ox. (K).
Gold, J., LL.M. (U).	
Kahn-Freund, O., Dr. Jur. Frankfurt, LL.M. (E).	*Wynham-White, E. H., LL.B. (E).

\* Barrister-at-Law.

## OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS

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|---|---|
| (1) GOLDSMITHS' COLLEGE.*<br>(2) BATTERSEA POLYTECHNIC.<br>(3) EAST MALLING RESEARCH STATION.<br>(6) JEWS' COLL.<br>(7) NORTHAMPTON POLYT. INST.<br>(8) NORTHERN POLYTECHNIC.<br>(9) ROYAL VETERINARY COLL.<br>(10) SIR JOHN CASS TECH. INST.<br>(11) CHELSEA POLYTECHNIC.<br>(12) WEST HAM MUNICIPAL COLL. | (13) WOOLWICH POLYTECHNIC.<br>(14) MARIA GREY TRAINING COLL.<br>(15) ST. MARY'S COLL., PADDINGTON.<br>(16) FURZEDOWN TRAINING COLLEGE.<br>(17) JOHN INNES HORTICULTURAL INSTITUTION.<br>(18) ROTHAMSTED EXPERIMENTAL STATION.<br>(19) ROYAL ACADEMY OF MUSIC.<br>(20) ROYAL COLL. OF MUSIC.<br>(21) TRINITY COLL. OF MUSIC. |
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\* Incorporated in the Univ.

## NAMES OF RECOGNIZED TEACHERS

*Note.*—In the following list the names of the instns. are indicated by numerals—as shown above. Nos. omitted were assigned to Instns. which no longer exist, or which now have no recognized teachers. Teachers to whom only probationary recognition has been granted are not included in the list.

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|---|---|
| <p><i>Agricultural Biology</i><br/>                     Cutler, D. W., M.A. Camb. (18).</p> <p><i>Agricultural Botany</i><br/>                     Brenchley, Winifred E., D.Sc. (18).</p> <p><i>Bacteriology</i><br/>                     Lovell, R., M.Sc. Manc., M.R.C.V.S. (9).</p> <p><i>Biochemistry</i><br/>                     Richards, E. H., B.Sc., F.I.C. (Agric. Biochem.) (18).<br/>                     Tattersfield, F., D.Sc. (18).</p> <p><i>Biology, v. supra, Medical Schools' Recognized Teachers</i></p> <p><i>Botany</i><br/>                     Barnes, B. F., D.Sc., Ph.D. (11).<br/>                     Brett, Margaret, M.Sc. (8).<br/>                     Duerden, H., B.Sc., Ph.D., A.R.C.S. (11).<br/>                     Henderson, F. Y., D.Sc. Glas. (10).                 </p> | <p><i>Chemistry</i><br/>                     Barnett, E. de B., B.Sc. (10).<br/>                     Clough, G. W., D.Sc. Birm. (9).<br/>                     Crowther, E. M., D.Sc. Leeds, D.I.C. (Soil C.) (18).<br/>                     Davies, C. W., M.Sc. Wales (2).<br/>                     Dorée, C., M.A. Ox., D.Sc. (11).<br/>                     Drakeley, T. J., D.Sc., Ph.D., F.I.C. (8).<br/>                     Field, S., A.R.C.S. (Applied C.) (7).<br/>                     Goodway, N. F., M.Sc. (10).<br/>                     Heap, T., B.Sc. Manc., M.Sc., Ph.D. (2).<br/>                     Houston, A. H. J., M.Sc., A.I.C. (2).<br/>                     Kenyon, J., D.Sc., F.I.C. (2).<br/>                     King, H. J. S., Ph.D., M.Sc. (8).<br/>                     Lowe, F. H., M.Sc. Manc. (11).<br/>                     Roach, W. A., B.A., A.R.C.S., D.I.C. (3).<br/>                     Rudge, E. A., M.Sc., Ph.D. (12).                 </p> |
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- Russell, Sir E. J., O.B.E., D.Sc.  
Ox. and Lond., F.R.S. (Agric.  
Chem.) (18).
- Sand, H. J. S., Ph.D. Zür., D.Sc.  
Birm. (10).
- Skellon, J. H., B.Sc. Brist., M.Sc.,  
A.I.C. (11).
- Smith, F. W., M.Sc., A.I.C. (8).
- Vogel, A. I., D.Sc., D.I.C. (13).
- West, R. W., D.Sc., A.R.C.S.,  
F.I.C. (8).
- Chemistry, Organic*
- Crocker, J. C., M.A. Camb., D.Sc.,  
F.C.S. (11).
- Richardson, D. H., M.Sc. (8).
- Classics*
- Crump, Mary M., M.A., D.Lit.  
(Latin) (1).
- Cytology*
- Darlington, C. D., D.Sc., Ph.D.  
(17).
- Education, v. also Music*
- Dean, A. E., M.A., M.Litt. (1).
- Firth, Catherine B., D.Lit. (16).
- Johnston, Katharine L., M.A.  
Sheff., T.D. Camb., B.A. (14).
- Kaye, M., M.A., Ph.D. (1).
- Schonell, F. J., B.A. W. Aust.,  
Ph.D. (1).
- Silsby, Eleanor, M.Sc. (16).
- Smith, Phyllis W., M.A. (14).
- Terry, Edith, Med. and Mod.  
Lang. Trip. Camb. (16).
- Williams, Mrs. E. M., M.A. (1).
- Electrical Communications*
- Vinycomb, T. B., M.C., M.A.  
R.U.I. (13).
- Engineering, Civil*
- Bolam, W. N., B.Sc. Edin. (7).
- Brooks, W. H., Ph.D., B.Sc. (Eng.)  
(7).
- Engineering, Electrical*
- Dover, A. T. (2).
- Dowse, C. M., B.Sc. (Eng.) (7).
- Howgrave-Graham, R. P. (also  
Applied Physics) (7).
- Mallett, E., D.Sc., M.I.E.E. (13).
- Mann, H. C., B.Sc. (Eng.) (2).
- Sims, L. G. A., D.Sc., Ph.D. Birm.  
(7).
- Spencer, W. G., M.Sc. (Tech.)  
Manc. (13).
- Yates, J. F., M.Sc. Belf., B.Sc.  
(12).
- Engin., Mech., v. also E., Civil*
- Ashworth, M. H., B.Sc. Manc.  
(13).
- Brooks, W. H., Ph.D., B.Sc. (Eng.),  
(7).
- Davies, V. C., B.Sc. (2).
- Docherty, J. G., B.Sc. (Eng.) Glas.,  
M.I.Mech.E. (12).
- Dumbrill, W. E., B.Sc., A.R.C.S.  
(Fluids), (7).
- Edmonds, H. M., B.Sc. (Eng.) (2).
- Peck, W. J., M.Sc. (Eng.) Sheff.  
(2).
- Richardson, D. (7).
- Scoble, W. A., M.B.E., D.Sc. (Eng.),  
M.I.Mech.E. (13).
- Engineering, Mech., and Sur-  
veying*
- Gladwyn, A. E., B.Sc. (Eng.)  
(12).
- English Lang. and Literature*
- Rees, W., M.A. Ox., Ph.D. (1).
- Entomology*
- Massee, A. M. (3).
- Williams, C. C., M.A., Sc.D. Camb.  
(18).
- Genetics*
- Crane, M. B. (17).
- Geology*
- Fleet, W. F., M.Sc., Ph.D. (11).
- Jones, F., Ph.D., M.Sc. (8).
- Wooldridge, S. W., D.Sc. (10).
- Horticulture*
- Hatton, R. G., C.B.E., M.A. Ox.  
(3).
- Mathematics*
- Church, A. E. R., M.A., D.Sc. (10).
- Cooke, R. G., D.Sc. (7).
- Hayden, H. A., B.Sc. Wales, D.Sc.  
(2).

Henderson, J. M. A., B.Sc. Edin.,  
Ph.D. (10).

Littlejohn, E. S., M.Sc. Manc.  
(12).

Lowry, H. V., M.A. Camb. (13).

Ludlam, A. E., M.Sc. Birm. (11).

Martin, E. S., B.Sc., Ph.D. (8).

*Medicine and Surgery*, v. *supra*  
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*Metallurgy*

Brice, L. J., M.Sc. (11).

Naish, W. A., B.Sc., Ph.D.,  
A.R.S.M., M.I.M.M., F.I.C.  
(11).

*Music*

Allen, Sir Hugh P., G.C.V.O., M.A.,  
D.Mus. Ox., Mus.D. Camb.,  
D.Litt. Sheff., F.R.C.M. (20).

Bantock, Sir Granville, M.A.  
Birm., Mus.D. Edin. (21).

Brockless, G. F., Mus.D. Durh.,  
F.R.C.O., A.R.C.M., L.R.A.M.  
(2).

Carse, A., F.R.A.M. (19).

Colles, H. C., M.A., D.Mus. Ox. (20).

Dale, B. J., F.R.A.M., F.R.C.O.  
(19).

Dunhill, T. F., A.R.C.M. (20).

Dyson, G., D.Mus. Ox. (20).

Farjeon, H., F.R.A.M. (19).

Hinton, A., F.R.A.M. (19).

Howells, H. N., F.R.C.O.,  
A.R.C.M. (20).

Hurd, R. J. W., LL.D., Ph.D.,  
F.T.C.L. (21).

Kitson, C. H., M.A. Camb.,  
D.Mus. Ox., F.R.C.O. (20).

Long, J. C., Mus.B. Ox. (21).

Lovelock, W., B.Mus. (21).

McEwen, Sir John B., M.A. Glas.,  
D.Mus. Ox., F.R.A.M. (19).

Marchant, S., C.V.O., D.Mus. Ox.,  
F.R.A.M., F.R.C.O., F.S.A.  
Prof. (19).

Oldroyd, G., D.Mus. (21).

Regan, L. W. A., B.Mus. Ox.,  
A.R.A.M., F.R.C.O. (19).

Roper, E. S., M.V.O., M.A.,  
Mus.B. Camb. (21).

Rowley, A., A.R.A.M., F.R.C.O.  
(21).

Sowerbutts, J. A., B.Mus.,  
F.R.C.O., A.R.A.M. (19).

Waddington, S. P. (20).

Wallace, W., M.D. Glas., F.R.A.M.  
(19).

*Pedagogy*, v. Education and  
Music

*Pharmacy and Pharmacognosy*

Morton, C., B.Sc. Lond., Ph.C.,  
M.P.S. (11).

*Physics*, v. also Maths.

Charlesworth, J., M.Sc. Manc. (8).

Emsley, H. H., B.Sc. Brist.,  
(App. P.), (7).

Evans, A. E., B.Sc. (2).

Freeman, L. J., B.Sc., Ph.D.,  
D.I.C. (11).

Howgrave-Graham, R. P. (App.  
P.) (7).

Humphry, R. H., M.Sc. Birm. (10).

Keen, B. A., D.Sc. (18).

Laws, S. C., M.A. Camb., M.Sc. (7).

Lownds, L., Ph.D. Berl., B.Sc. (11).

Mandell, W., M.Sc. Wales, B.Sc.,  
Ph.D. (11).

Marsh, S., D.Sc. Wales, Ph.D.  
Gött. (2).

Nicol, J., B.A. Camb., B.Sc. (8).

Owen, D., B.A. Camb., D.Sc. (10).

Polson, W., M.A., B.Sc. Aberd.  
(12).

Symons, A. S. M., B.Sc., Ph.D.,  
A.R.C.S., D.I.C. (2).

Vinycomb, T. B., M.A. R.U.I. (13).

*Physiology*

Beattie, Florence J. R., D.Sc.  
Belf. (11).

Symes, W. L., M.R.C.S. (9).

*Plant Pathology*

Smith, J. H., B.A. Ox., M.B., Ch.B.  
Edin. (18).

Wormald, H., D.Sc., D.I.C. (3).

*Plant Physiology*

Vyvyan, M. C., M.A. Camb. (3).



<i>Semitic Languages</i>		<i>Veterinary Hygiene</i>	
Büchler, A., Ph.D. Leip.	(6).	Miller, W. C., M.R.C.V.S.	(9).
Daiches, S., Ph.D. Leip.	(6).	Wooldridge, G. H., F.R.C.V.S.	(9).
Epstein, I., D.Lit., Ph.D.	(6).	<i>Veterinary Pathology</i>	
Marmorstein, A., Ph.D.	Heid.	Minett, F. C., M.B.E., D.Sc.,	
(Bible and Rabbis)	(6).	M.R.C.V.S.	(9).
<i>Soil Bacteriology</i>		<i>Veterinary Physiology</i>	
Thornton, H. G., B.A. Ox., D.Sc.		Bogue, J. Y., Ph.D. Edin.,	
	(18).	M.R.C.V.S.	(9).
<i>Statistics</i>		<i>Zoology</i>	
Yates, F., M.A.	(18).	Dawes, B., D.Sc., A.R.C.S., D.I.C.	(10).
<i>Veterinary Anatomy</i>			
McCunn, J., M.R.C.V.S., M.R.C.S.,		Hentschel, C. C., M.Sc.	(11).
L.R.C.P.	(9).	Hewer, H. R., M.Sc.	(10).

## GENERAL INFORMATION

[*(a)* Principal. *(b)* Subjects in which recognized. *(c)* Number of students.]

1. UNIVERSITY OF LONDON GOLDSMITHS' COLLEGE, New Cross, S.E.14. Incorporated in the Univ. Warden, and Principal of the Training Dept.—A. E. Dean, M.A., M.Litt. Vice-P'pals. of Training Dept.—R. A. Raven, M.A., and Miss D. M. E. Dymes, M.A.

Opened in 1905 in buildings presented by the Goldsmiths' Company, whose "Technical and Recreative Institute" had been carried on therein since 1891. Open to both sexes. Recognized Teachers—10 (*v. supra*)—Classics, Educn., Engl., French, Geog., Hist., Maths.; others—97.

*Training Department.* Recognized by Bd. of Educn. as a Training Coll. Ordinary course—2 yrs., or for B.A. (General) or B.Sc. (General) degree—3 yrs. Lectrs. and Instrs.—38. *Annual fee* for tuition, £25. Hostels provide accommodation for nearly all the women and most of the men students.

*School of Art* (Day and Evening). Headmaster and 16 Assts. *Fees*: Day, £5 to £15; Evening, 13s. for any one sessional class or £1 for an inclusive course on three evenings.

*The Evening Department of Adult Education.* Provides opportunities of non-vocational study for men and women. *Fees*: 10s. for any one sessional class or £1 for an inclusive course on any number of evenings.

2. BATTERSEA POLYTECHNIC, Battersea Park Rd., S.W.11. (*a*) G. F. O'Riordan, B.Sc. (Eng.), M.I.Mech.E., M.I.A.E. (*b*) Chem., Engin. (Civ., Elec., Mech.), Maths., Music, Physics. (*c*) 3015.

3. EAST MALLING RESEARCH STATION, East Malling, Kent. *Director*—R. G. Hatton, C.B.E., M.A. Ox., D.Sc. (*b*) Fruit Production (including Horticulture (Pomology), Statistics, Plant Physiol., Biochem., Plant Pathol., Entomol.). For post-graduate research students only. Maximum accommodation, 12.

6. JEWS' COLLEGE, Woburn House, Tavistock Sq., W.C.1. (*a*) A. Buchler, Ph.D. (*b*) Hebrew, Semitics. (*c*) 32.

7. NORTHAMPTON POLYTECHNIC, St. John St., E.C. 1. (*a*) S. C. Laws,

M.A., M.Sc. (b) Engin. (Civil, Mech., Elec., Elec. Communication), Physics, Chem., Maths., Applied Optics. (c) 3700.

8. NORTHERN POLYTECHNIC, Holloway Rd., N.7. (a) T. J. Drakeley, D.Sc., Ph.D., F.I.C. (b) Bot., Chem., Geol., Maths., Physics. (c) 3507.

9. ROYAL VETERINARY COLLEGE, Gt. College St., Camden Town, N.W.1. (a) Prof. J. B. Buxton, M.A., F.R.C.V.S., D.V.H. (b) Chem., Vet. Hyg., Vet. Path. and Bact., Physiol. (c) 369.

10. SIR JOHN CASS TECHNICAL INSTITUTE, Jewry St., Aldgate, E.C.3. (a) G. Patchin, A.R.S.M., M.I.M.M. (b) Bot., Chem., Geol., Maths., Physics, Zool. (c) 2000 (approx.).

11. CHELSEA POLYTECHNIC, Manresa Rd., Chelsea, S.W.3. (a) F. J. Harlow, M.B.E., Ph.D., B.Sc., F.Inst.P., A.R.C.S. (b) Bot., Chem., Geol., Maths., Metall., Music, Pharm., Physics, Physiol., Zool. (c) Day, 1117; Evg., 2018.

12. WEST HAM MUNICIPAL COLLEGE, Romford Rd., West Ham, E.15. (a) H. Baker, M.Sc., Ph.D. (b) Chem., Engin. (Elec., Mech.), Maths., Physics, Surveying. (c) Day, 544; Evg., 1250.

13. WOOLWICH POLYTECHNIC, William St., Woolwich, S.E.18. (a) E. Mallett, D.Sc., M.Inst.C.E., M.I.E.E., F.Inst.P. (b) Chem., Engin. (E., M.), Maths., Phys. (c) 4000.

14. MARIA GREY TRAINING COLLEGE, Salusbury Rd., Brondesbury, N.W.6. (a) Miss K. L. Johnston, M.A. (b) Educn. (c) 202.

15. ST. MARY'S COLLEGE, 34 Lancaster Gate, W.2. (a) Miss E. A. M. Maxwell, M.A. Camb. (b) Teachers' Diploma of London and Camb. Univs., Teachers' Certif. of Nat. Froebel Union. (c) 100.

16. FURZEDOWN TRAINING COLLEGE, Welham Rd., Mitcham Lane, S.W.17. (a) . . . . . (b) Pedagogy. (c) 257.

17. JOHN INNES HORTICULTURAL INSTITUTION, Mostyn Rd., Merton, S.W.19. *Director*—Sir Daniel Hall, K.C.B., LL.D., M.A., F.R.S. (b) Genetics and Cytology. (c) 10 (research only). *V. also App. III. A. VI.*

18. ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts. *Director*—Sir E. John Russell, D.Sc., F.R.S. (b) Science (in its application to Agric.). For research students only. *V. also App. III. A. I.*

19. ROYAL ACADEMY OF MUSIC, Marylebone Rd., N.W.1. (a) Prof. Stanley Marchant, C.V.O., D.Mus.Ox., F.S.A., F.R.A.M. (b) All branches of Music, theoretical and practical.

20. ROYAL COLLEGE OF MUSIC, Prince Consort Rd., S. Kensington, S.W.7. *Director*—George Dyson, D.Mus.Ox., F.R.C.M., F.R.C.O. (b) All Music subjects. (c) About 700.

21. TRINITY COLLEGE OF MUSIC, Mandeville Place, W.1. (a) E. Stanley Roper, M.V.O., M.A., Mus.B. (b) All subjects for the Musical and Arts (Music) degrees of Lond. and other Univs. (c) Univ. degree students, 11.

# VICTORIA UNIVERSITY OF MANCHESTER

Founded 1880

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F.R.I.B.A., F.R.S.

VICE-CHANCELLOR—Prof. JOHN S. B. STOPFORD, M.D., Sc.D., F.R.S.

PRO-VICE-CHANCELLORS—Prof. F. C. THOMPSON, B.Sc. Lond., D.Met.  
Sheff., M.Sc.; Prof. D. ATKINSON, B.A. Ox., M.A.

CHAIRMAN OF THE COUNCIL—Sir CHRISTOPHER T. NEEDHAM, D.L., B.A.

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BURSAR—G. W. KAYE, M.A.

LIBRARIAN—M. TYSON, M.A., Ph.D.

Telephone: Manchester, Ardwick 2681.

## TEACHING STAFF

<i>Accounting</i>	[Lectr.	Patterson, E. L., B.Sc., M.B., Ch.B.	Asst. Lectr.
Wilkinson, R. H. E., F.C.A.			
Jones, M. Wheatley, B.Com.			
	Asst. Lectr.	Demonstrators:	
<i>Agriculture</i> , v. Bot., Chem., Econ., Zool.		Cranna, D. D., M.B., Ch.B., M.R.C.S., L.R.C.P.	
<i>Anatomy and Histology</i>		Richmond, D. A., B.Sc., M.B., Ch.B.	
Jones, F. Wood, D.Sc. Lond. and Melb., M.B., B.S. Lond., F.R.C.S., F.R.S.	Prof.	Smith, F. W., B.Sc., M.B., Ch.B., M.R.C.S., L.R.C.P.	
Lecturers:		<i>Architecture</i>	
Stewart, D., M.Sc., M.R.C.S., L.R.C.P.		Cordingley, R.A., M.A., F.R.I.B.A., M.T.P.I.	
Cooper, Eugenia R. A., M.Sc., M.D. (Histology)		Prof. and Director of the School.	
Jefferson, G., M.S. Lond., F.R.C.S. (Applied Anat.).		Lecturers:	
Paterson, R. S., M.D., D.M.R.E. Camb. (Applied Anat.)		Williams, J.	
Platt, H., M.D., M.S. Lond., F.R.C.S. (Applied Anat.).		Nunn, J. P., B.A., A.R.I.B.A.	
Brockbank, W., M.A., M.D. Camb., M.R.C.P. (Applied Anat.).		Hickey, D., LL.B. (Town Planning Law).	
		Chapman, W. D. (Town Planning Practice).	
		Halliday, F. L., A.R.I.B.A. (Archit. for Town Planning).	

Johnson, Albert, M.Sc. Durh.,  
F.R.San.I., M.Inst. Mun. &  
Cy.E., F.I.S.E. (Engin. for  
Town Planning).

Leeming, E. L., M.Sc.Tech.,  
M.I.C.E., M.Inst. Mun. & Cy.E.  
(Surveying for Town Plan-  
ning).

Wilenski, R. H. (Hist. of Art)  
Sp. Lectr.

Edge, R. (Decoration) Sp. Lectr.

Cahill, T. J. A., B.A., A.R.I.B.A.  
Asst. Lectr.

Malpass, J. C. L. (Life Drawing)  
Sp. Instr.

Pickup, G., Dp.Arch. Studio Asst.

*Banking*

Cunliffe, W.  
Drummond-Fraser Lectr.

*Botany*

Drummond, J. M. F., M.A. Camb.,  
M.Sc.

George Harrison Prof.  
and Director of Bot.  
Labs. and Experimen-  
tal Grounds.

Lang, W. H., M.B., C.M., D.Sc.,  
LL.D. Glas., M.Sc., F.R.S.  
(Cryptogamic B.) Barker Prof.

*Sr. Lecturers :*

Smith, A. E. H., B.Sc. Edin.  
(Agric. Bot.).

Howarth, W. O., D.Sc.

Sansome, F. W., B.Sc.Agr., Ph.D.  
Edin. (Hortic.).

*Lecturers :*

Manton, Irene, B.A., Ph.D. Camb.  
Warne, L. G. G., M.Sc., Ph.D.  
Brist.

*Asst. Lecturers :*

Orr, H. R., B.Sc., Ph.D. Edin.

Luckwill, L. C., B.Sc. Brist.

Colson, Barbara, B.Sc., Ph.D.  
Lond. (Mycol.) Res. Asst.

*Chemistry*, v. also Physics,  
Physiol., Technol.

Heilbron, I. M., D.S.O., D.Sc.  
Glas., Ph.D. Leipz., M.Sc.,  
F.R.S., F.I.C.

Sir Samuel Hall Prof.  
and Director of Chem.  
Labs.

Polanyi, M., M.D., Ph.D. Budap.  
M.Sc. (Phys. C.) Prof.

Burt, F. P., M.B.E., B.Sc. Lond.,  
D.Sc. Brist. (Stoichio Chem.)  
Reader.

*Sr. Lecturers :*

Myers, J. E., O.B.E., D.Sc., A.I.C.  
Campbell, C., D.Sc.

Fairbrother, F., D.Sc.

Burkhardt, G. N., M.Sc., Ph.D.,  
F.I.C.

*Lecturers :*

Henry, D. C., M.A. Camb.

Gaul, E. G., M.Sc., F.I.C.

Herbert, J. B. M., M.Sc.

Hey, D. H., M.Sc. Wales, B.Sc.,  
Ph.D. Lond., D.Sc., F.I.C.

Spring, F. S., B.Sc., Ph.D. Liv.

Evans, M. G., M.Sc.

Stewart, R., B.Sc., Ph.D. Edin.  
(Agric. Chem.).

Smith, Norman, D.Sc.

Hon. Spec. Lectr.

Gillam, A. E. M. G., D.Sc. Liv.,  
F.I.C. (Chem. Spectroscopy).

Sp. Lectr.

*Chinese*

Mead, E. W., M.A. Camb. (C.  
Lang. and Commerce.)

Reader.

*Classics*, v. also Theol.

Webster, T. B. L., M.A. Ox. and  
Manc. (Greek) Hulme Prof.

Semple, W. A., M.A. Belf., Ph.D.  
Camb. (Latin) Hulme Prof.

*Lecturers :*

Husband, Jeanie, B.A. Liv.

McLachlan, Rev. H., M.A., D.D.  
(Hellenistic Gk.).

Woodcock, E. C., M.A. Camb.  
(Latin).

Davison, J. A., M.A. Ox.

Palmer, L. R., B.A. Wales, Ph.D.  
Camb. and Vienna.

Wycherley, R. E., B.A. Camb.

Asst. Lecturers :

Cook, R. M., M.A. Camb.

Morrison, J. S., B.A. Camb.

### *Crystallography*

Miers, Sir H. A., M.A., D.Sc. Ox.,  
Sheff., and Manc., D.C.L. Ox.,  
LL.D. Liv., Ph.D. Christ.,  
F.R.S. Hon. Prof.

Buckley, H. E., D.Sc. Senr. Lectr.

### *Dentistry, v. infra*

*Economics and Commerce*, v. also  
Acctg., Banking, Law, Statis-  
tics, Pub. Admin.

..... (Polit. Econ.)

Stanley Jevons Prof.

Jewkes, J., M.Com. (Social Econ.)  
Prof.

Redford, A., M.A., Ph.D.

(Econ. Hist.) Reader.

Ashton, T. S., M.A.

(Curr. and Fin.) Reader.

Jones, Arthur, B.Litt. Ox., B.Sc.  
Wales (Agr. Econ.) Reader.

Stafford, J., M.A. (Econ.) Lectr.

Dennison, S. R., B.A. Camb., M.A.  
Durh. Asst. Lectr.

Collier, Frances, M.A.

(Comm. and Admin.)

Gartside Res. Asst.

Staff Tutors (Tutorial Classes) :  
Bruce, W., B.Sc. Lond.

.....

### *Education*

..... Sarah Fielden Prof.

Findlay, J. J., M.A. Ox., Ph.D.  
Leip., M.Ed. Hon. Prof.

Hicks, W. C. R., B.A. Lond.,  
Ph.D. Erlangen Sr. Lectr.

Lecturers :

Start, Laura E., M.Ed.

Eggar, Margaret E., N.F.U.

Hindshaw, Winifred, M.A., M.Ed.  
(to 29.9.38)

Conway, Gladys, B.A. Liv.

Clarke, Winifrid S., M.Sc. (Phys.  
Ex.).

Borthwick, Phyllis M., M.Sc. Brist.,  
B.Sc. Lond.

Eaglesham, E. J. R., M.A., B.Ed.  
Edin., LL.B. Lond.

Haycocks, N., M.A.

Wood, H. P., M.Sc. Durh.

Jenkin-Jones, Chrystie M., B.A.  
Wales Hon. Lectr.

Collins, Hilda F. (Handwork and  
Drawing) Asst.

Ashworth, Florence M., B.A.

(Speech Trg.) Asst.

Hodgkins, Rev. W. (Speech Trg.)  
Asst.

Procter-Gregg, H., B.A., Mus.B.  
Camb., A.R.C.M. (Singing)

Instr.

Middleton, Edith (Gardening) Instr.

Med. Offs. for Tr. Dept. :

Melland, C. H., M.D. Lond., B.Sc.,  
F.R.C.P. (men).

Chisholm, Catherine, C.B.E., B.A.,  
M.D. (women).

### *Education of the Deaf*

Ewing, Irene R., M.Sc.

Ellis Llwyd Jones Reader.

Ewing, A. W. G., M.A. Edin.,  
Ph.D. Hon. Sp. Lectr.

Littler, T. S., M.Sc., Ph.D.

(Acoustics) Sp. Lectr.

Elliott, Beatrice M. Asst. Lectr.

Lambert, V. F., Ch.M.

Hon. Consult. Otologist.

### *Electro-Chemistry, v. Technol.*

### *Electro-Technics*

Beattie, R., D.Sc. Durh.

Edward Stocks Massey Prof.

Gerrard, H., M.Sc., F.I.P. Sr. Lectr.

Higham, J., M.Sc. Lectr.

Williams, F. C., D.Phil. Ox., M.Sc.

Asst. Lectr.

*Engineering*, v. also Technol.

Gibson, A. H., LL.D. St.  
And., D.Sc., M.Inst.C.E.,  
M.I.Mech.E.

Beyer Prof. and Director  
of Whitworth Labs.

Mason, C. M., M.Sc. Clifton Lectr.  
Lecturers :

Jones, Eric, M.Sc.

Baker, H. W., D.Sc.

Mucklow, G. F., D.Sc.

Allen, Jack, M.Sc.

Matheson, J. L., M.Sc.

Asst. Lectr.

Buckingham, F., B.Sc. Lond.

Sp. Lectr.

*English Language and Lit.*

Charlton, H. B., M.A. Leeds and  
Manc. (E. Lit.) Taylor Prof.

Gordon, E. V., M.A. Ox. and  
Manc. (E. Lang.) Smith Prof.

Wright, J. D., M.A. (E.Lit.)

Sr. Lectr.

Lecturers :

Harmer, Florence E., M.A. Camb.,  
B.A. Lond.

Brook, G. L., B.A., Ph.D. Leeds  
(E. Lang.).

Asst. Lecturers :

Knights, L. C., M.A. Camb.  
(E.Lit.).

Jump, J. D., M.A. Liv. (E. Lit.).

*French Language and Lit.*

Vinaver, E., M.A. Ox. and Manc.,  
B.Litt. Ox., D. es L. Paris

Prof.

Pope, Mildred K., M.A. Ox.,  
D. de l'U. Paris. (Fr. Lang.  
and Rom. Philol.) Prof.

Crump, Phyllis E., M.A. Lond. and  
Manc. Sr. Lectr.

Marks, J., M.A. Sr. Lectr.

Valette, Mme. Andrée, Mod. Lang.  
Hons. Ox. Lectr.

Reid, T. B. W., M.A., LL.B. Dub.,  
L. ès L. Montp. Lectr.

Asst. Lecturers :

Wildman, C. H., M.A. Ox.

Fraser, Elizabeth M., M.A. Edin.,  
D. de l'U. Paris.

West, F., B.A. Sheff.

Leveaux, Lucy Asst.

Smith, C., B.A. Asst.

*Geography*

Fleure, H. J., D.Sc. Wales, M.A.,  
F.R.S. Prof.

Fitzgerald, W., M.A. Liv.

Sr. Lectr.

Wright, Mabel C., A.R.C.S.I.

Sp. Lectr.

Davies, Elwyn, M.A. Wales, M.Sc.

Asst. Lectr.

Dunlop, Margaret, M.A.

Asst. Lectr.

*Geology, Palæont., and Petrol.*

Pugh, W. J., O.B.E., B.A., D.Sc.  
Wales, M.Sc. Prof.

Straw, S. H., M.Sc. Lond.

Sr. Lectr.

Williams, N. T., B.Sc. Wales  
(Mining). Lectr.

Morton, E., M.Sc.

(Applied Geol.) Sp. Lectr.

Deer, W. A., Ph.D. Camb., M.Sc.  
Asst. Lectr.

*German Lang. and Lit.*

Butler, Elsie M., M.A. Camb.

Henry Simon Prof.

Pickering, F. P., B.A. Leeds,  
Ph.D. Breslau Lectr.

Tymms, R. V., B.A. Ox.

Asst. Lectr.

Schneider, K., Dr.Phil. Giessen

Asst.

*Hebrew*, v. Theol.—Semitic  
Langs.

*Histology*, v. Anat., Physiol.,  
Pathol.

*History*, v. also Econ., Theol.

Jacob, E. F., M.A. Ox. and Manc.  
D.Phil. Ox. (Mediaeval H.) Prof.

Atkinson, D., B.A. Ox., M.A.  
(Ancient H.) Prof.

Namier, L. B., M.A. Ox. and  
Manc. (Mod. H.) Prof.

Tait, J., M.A., Litt.D. Ox. and Manc., F.B.A. Hon. Prof.

Lecturers :

Hughes, Edward, M.A. (Mod. and Military Hist.).

Wilkinson, B., M.A., Ph.D.

Taylor, A. J. P., M.A. Ox.

Atkinson, Kathleen M. T., M.A.

Ox. (Ancient H.) Sp. Lectr.

Tupling, G. H., M.A., B.Sc., Ph.D.

Lond. (Local H.) Sp. Lectr.

Willan, T. S., B.A., B.Litt.,

D.Phil. Ox. Asst. Lectr.

Hussey, Joan M., M.A., B.Litt.

Ox., Ph.D. Lond. Asst. Lectr.

*Horticulture*, v. Botany

*Industrial Psychology*, v. Psychology

*Italian* [Prof.

Bullock, W. Ll., M.A., Ph.D. Harv.

Neri, Nicoletta, Dott. Lett. Turin

Asst.

*Law*

Eastwood, R. A., LL.D. Prof.

Wortley, B. A., LL.M. Leeds

(Jurisprud. and Comp. L.)

Reader.

Lecturers :

Jolly, J. C., B.A. Camb.

Gandy, C., B.A. Ox.

Turner, J., LL.M. Liv.

Towns, F. W., LL.M.

Blank, D., LL.B. (Tutor for Articled Clerks).

Cantley, J. D., LL.B. Asst. Lectr.

Driver, J. E., LL.M. Asst. Lectr.

Hesling, Edith, LL.B. Asst. Lectr.

*Mathematics*, v. also Technol.

Mordell, L. J., B.A. Camb., M.Sc., F.R.S.

(Pure M.) Fielden Prof.

..... (Applied M.) Beyer Prof.

Bailey, W. N., M.A., Sc.D. Camb., M.Sc. Lond., D.Sc.

(Pure M.) Richardson Lectr.

Lecturers :

Eagle, A., B.Sc. Lond., A.R.C.S.

Swirles, Bertha, M.A., Ph.D. Camb.

Schlapp, R., Ph.D. Camb.

Asst. Lecturers :

Du Val, P., B.Sc. Lond., Ph.D. Camb.

Davenport, H., M.A. Camb., B.Sc.

Sawyer, W. W., B.A. Camb.

Mahler, K., Ph.D. Göttingen.

Lord, R. D., M.Sc. Lond.

Lectr. Asst.

*Medicine*, v. *infra*

*Metallurgy and Metallography*, v. also Technol.

Thompson, F. C., B.Sc. Lond., D.Met. Sheff., M.Sc. Prof.

Jones, E. O., B.Sc. Lond.,

A.R.S.M. (Non - Ferrous

Metall.) Lectr.

Cuthbertson, J. W., M.Sc. (Electro-

Metall.) Lectr.

Latin, A., B.Eng., Ph.D. Liv.

Asst. Lectr.

*Military Organization and Tactics*, v. also Hist.

King, Capt. J. E. Hon. Lectr.

*Mining*, v. Geology

*Music*

Procter-Gregg, H., B.A., Mus.B.

Camb., A.R.C.M. Lectr.

Forbes, R. J., Hon. R.A.M.,

F.R.C.M. Sp. Lectr.

Dawber, H. M., F.R.C.O.

Sp. Lectr.

Dickson, E. C. S., B.A. Camb.,

Ph.D. Bonn.

(Acoustics) Sr. Lectr.

*Palæography*

Tyson, M., M.A., Ph.D. Lectr.

*Philosophy and Public Administration*, v. also Theol.

Ritchie, A. D., M.A. Camb. and St.

And. Sir Samuel Hall Prof.

Alexander, S., O.M., M.A. Ox. and Manc., D.Litt. Ox. and Durh., Litt.D. Manc., Camb., Liv., LL.D. Birm. and St. And., F.B.A. Hon. Prof.

Chester, D. N., M.A. (Admin.) (Pub. Admin.) Lectr.

Chantler, P., M.A. Manc. and Harv. (Pub. Admin.) Asst. Lectr.

Teale, A. E., B.A. Leeds Asst. Lectr.

*Physics*, v. also Electro-Technics and Elect. Engin.

Blackett, P. M. S., M.A. Camb., F.R.S.

Langworthy Prof. and Director of Physical Labs.

Hartree, D. R., M.A., Ph.D. Camb., M.Sc., F.R.S.

(Theoret. Phys.) Prof.

Henry, D. C., M.A. Camb. (Colloid Phys.) Reader.

Sr. Lecturers :

Nuttall, J. M., D.Sc., F.I.P.

Dickson, E. C. S., B.A. Camb., Ph.D. Bonn.

Lecturers :

Bell, H., M.A. Edin.

Brentano, J. C. M., D.Sc. Munich and Manc., F.I.P.

Tolansky, S., B.Sc., Ph.D. Durh.

Sutherland, G. A., M.A. Camb. Sp. Lectr.

Asst. Lecturers :

Beevers, C. A., M.Sc. Liv.

Lovell, A. C. B., B.Sc., Ph.D. Brist.

Rochester, G. D., M.Sc., Ph.D. Durh.

*Physiology* [Brackenbury Prof.

Raper, H. S., C.B.E., D.Sc., M.B., Ch.B. Leeds, M.Sc., F.R.S.

Lamb, F. W. J. A., B.A., M.D., D.P.H. Dub.

(Human Physiol.) Reader.

Lecturers :

Schlapp, W., M.B., Ch.B., B.Sc., Ph.D. Edin. (Exper. P.).

Kendal, L. P., Ph.D. Camb., M.Sc. (Physiol. Chem.).

Hon. Asst. Lecturers :

Langley, G. J., M.B.E., M.D., B.S. Lond., F.R.C.P.

Diggle, F. H., O.B.E., M.B., Ch.B., F.R.C.S., F.R.C.S.E.

Woolham, J. G., M.D., D.P.H.

Williams, Margaret I., B.Sc., M.B., Ch.B.

(Applied P.) Asst. Lectr.

Demonstrators :

Collier, H. O. J., B.A. Camb. (Compar. P.).

Mackay, I. F. S., L.R.C.P., L.R.C.S.I. (Human P.).

Jackson, H., M.Sc. (Physiol. Chem.).

*Political Philosophy*, v. Philos.

*Psychology* [Prof.

Pear, T. H., B.Sc. Lond., M.A.

James, H. E. O., B.A., M.Sc.

Lectr.

Wyatt, S., D.Sc., M.Ed. Sp. Lectr.

*Pub. Administration*, v. Philos.

*Russian*

Trofimov, M. V., M.A. Pet. and Manc.

Sir William Mather Prof.

*Semitic Languages*, v. Theol.

*Spanish*

[Sr. Lectr.

Rees, J. W., M.A. Ox., B.A. Wales

Speakman, S. O., B.A. Ox.

Asst. Lectr.

Meana, L., Lic. en Let. Madrid.

Asst.

*Statistics*

Campion, H., M.A. Com. (Econ. Stat.) Robert Ottley Lectr.

*Technology*, v. *infra*

*Theology*, v. *infra*

*Veterinary Hygiene*, v. *infra*  
Bacteriol. and Prev. Med.



*Zoology*

- Cannon, H. G., M.A., Sc.D. Camb.,  
D.Sc. Lond., M.Sc., F.R.S.  
Beyer Prof.  
Brown, F. J., M.Sc. Birm.  
Sr. Lectr.  
Miles, H. W., M.Sc. Brist., D.Sc.,  
Ph.D. (Agr. Entomol.)  
Sr. Lectr.  
Brough, J., B.Sc. Durh. Lectr.  
Asst. Lecturers :  
Bassindale, R., M.Sc. Sheff.  
Waterhouse, F. L., B.Sc. Demr.  
Brough, Margaret C., B.Sc., Ph.D.  
Lond. Demr.  
Vickers, G. G., M.Sc.<sup>7</sup>/<sub>4</sub> Sheff.  
Demr.  
MacGill, Elsie I., M.Sc. (Entomol.)  
Res. Asst.

*Medicine*

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*).

*Anæsthetics*

- Hill, E. F., M.D., M.R.C.S.,  
L.R.C.P. Lectr.

*Bacteriology, v. infra**Cancer Research*

- [Director.  
Twort, C. C., M.D. Aberd.  
Twort, J. M., B.Sc. Lond. Asst.  
Lyth, R., M.Sc., Dip. Bact. Asst.

*Children, Diseases of* [Reader.

- Lapage, C. P., M.D., F.R.C.P.  
Ward, J. F., M.D., M.R.C.P.,  
M.R.C.S. Lectr.

*Clin. Lecturers :*

- Ashby, H. T., B.A., M.D. Camb.,  
F.R.C.P., M.R.C.S.  
Chisholm, Catherine, C.B.E., B.A.,  
M.D.

*Clin. Demonstrators :*

- Fisher, T. N., M.B., Ch.B., D.P.H.,  
M.R.C.P.  
Guthrie, Sylvia K., M.D.,  
M.R.C.P., M.R.C.S.

*Clinical Investigations*

- Wilkinson, J. F., M.Sc., M.D.,  
Ph.D., F.R.C.P., F.I.C.  
Dir. of Lab.  
Israëls, M. C. G., M.Sc., M.D.  
Asst. Dir.  
Rowlands, E. N., B.Sc., M.B.,  
Ch.B. Chief Med. Asst.

*Dermatology**Clin. Lecturers :*

- Savatard, L., L.S.A.  
Gibson, R., M.D. Edin.  
Mumford, P. B., M.D., F.R.C.P.

*Ear, Throat, and Nose, Diseases of the*

- Lambert, V. F., M.B., Ch.M.,  
F.R.C.S.E. (Ear) Lectr.  
Wrigley, F. G., M.D.  
(Throat and Nose) Lectr.

*Forensic Medicine*

- Hodgson, S., M.D. Lond.,  
M.R.C.S., L.R.C.P. Lectr.

*Hygiene, v. infra Bacteriol. and Prev. Med.**Infectious Diseases* [Clin. Lectr.

- Sutherland, D. S., M.D. Glas.  
Yule, J., M.D. Glas., D.P.H. Edin.  
and Glas. Clin. Lectr.

*Medical Ethics and Conditions of Med. Practice*

- Kilroe, L., M.D. Lectr.

*Medicine*

- Tylecote, F. E., M.D., D.P.H.,  
F.R.C.P. Prof.  
Langley, G. J., M.B.E., M.D.,  
B.S. Lond., F.R.C.P.  
(Gen. Therap.) Reader.  
Oliver, T. H., M.D., F.R.C.P.  
(Syst. Med.) Lectr.  
Wilkinson, J. F., M.Sc., M.D.,  
Ph.D., M.R.C.P., F.I.C.  
(Syst. Med.) Lectr.

Cowan, J., M.B., Ch.B. (Physio-  
Therap.) Lectr.  
Don, C. S. D., M.D. Aberd.,  
M.R.C.P. (Syst. Med.) Demr.

*Medicine, Clinical*

Lecturers :

Oliver, T. H., M.D., F.R.C.P. (also  
in Syst. Med.).

Bramwell, J. C., M.A. Camb.,  
M.D., F.R.C.P.

Ferguson, F. R., M.D., D.P.H.,  
F.R.C.P. (also in Neurol.).

Holmes, A. H., M.D., F.R.C.P.

Kletz, N., M.B., Ch.B., M.R.C.P.

*Mental Diseases*

Cormac, H. D., M.B., M.S. Madr.,  
D.P.M. Lectr.

Gifford, J., B.A. Cape, M.B., Ch.B.  
Edin., D.P.M. Lond. Lectr.

Crowe, P. M., M.B., Ch.B., D.P.M.  
Asst. Lectr.

Gill, F. A., M.D. Aberd. Sp. Lectr.

*Neurology, v. Med., Clin.*

*Neurology, Experimental*

Stopford, J. S. B., Sc.D. Dub.,  
M.D., F.R.S. Prof.

*Obstetrics and Gynæcology*

Dougal, D., M.C., M.D., F.C.O.G.  
Prof.

Bailey, K. V., M.C., M.D.,  
M.R.C.P., M.C.O.G. Lectr.

Gerrard, E. A., M.D., M.R.C.S.,  
L.R.C.P., M.C.O.G.

Asst. Lectr.

Newton, R., M.D., M.C.O.G. Demr.

*Obstetrics and Gynæcol., Clin.*

Shaw, W. F., M.D., M.R.C.P.,  
F.C.O.G. Prof.

Lacey, F. H., M.D., F.C.O.G. Lectr.

Bride, J. W., M.D. Lond. and  
Manc., F.C.O.G. Lectr.

Brentnall, C. P., M.C., M.B.,  
Ch.B. Liv., M.C.O.G. Lectr.

Addis, W. R., M.C., M.B., Ch.B.  
Edin., F.C.O.G. Lectr.

*Ophthalmology*

Clin. Lecturers :

McNabb, H. H., M.D.

Wharton, J., M.A., M.D. Camb.  
Bride, T. M., M.D.

*Orthopædics*

Hon. Clin. Lecturers :

Ollerenshaw, R., M.D., F.R.C.S.

Platt, H., M.S. Lond., M.D.,  
F.R.C.S.

*Pathology and Path. Anat., v. also*

Dermatol. and Surgical Path.

Baker, S. L., M.R.C.S., L.R.C.P.,  
Ph.D., D.P.H. Lond., M.Sc.

Procter Prof.

Susman, W., B.A., M.D. Ont.  
(Morbid Anat. and Histol.)

Lectr.

Kay, W. W., M.Sc., M.B., Ch.B.  
(Chem. P.) (to May 1938)

Lectr.

Kershaw, J., L.S.A. Lond., L.D.S.  
(Dental Path. and Bact.)

Lectr.

Whitehead, R., M.Sc., M.D. Lectr.

Davson, J., M.B., B.S. Lond.

Demr.

Dalton, H. W., B.A., M.B., B.Ch.,  
D.P.H. Dub.

Demr.

*Pharmacology, Mat. Med., Thera-  
peutics and Pharmacy*

Macdonald, A. D., M.A., M.B.,  
Ch.B. Edin. Leech Prof.

Brindle, H., B.Sc. Lond., F.I.C.,  
Ph.C. (Pharmacy) Sr. Lectr.

Roberts, Ivy, M.Sc., Ph.C.  
(Pharmaceutics) Lectr.

Bedford, T. H. B., M.Sc., M.B.,  
Ch.B. Leeds, M.R.C.P. (Phar-  
macol.) Lectr.

Bullock, K., M.Sc., Ph.D., Ph.C.,  
F.I.C. (Pharmacy) Lectr.

*Demonstrators :*

Jackson, Jacob, B.Sc. Lond.

Rowson, J. M., M.Sc., Ph.C.

Marginson, C. C., B.Sc., A.I.C.,  
Ph.C.

Waterhouse, C. E., Ph.C.

Broadley, H., Ph.C.

*Radiology*

Twining, E. W., M.R.C.S., L.R.C.P.,  
D.M.R.E. Camb. Lectr.

*Surgery*

[Prof.]

Morley, J., M.B., Ch.M., F.R.C.S.

## Lecturers :

Rayner, H. H., M.B., Ch.B.,  
F.R.C.S.

Hey, W. H., M.B., Ch.B., F.R.C.S.

Buckley, J. P., M.A., M.D. Camb.,  
M.S. Lond., F.R.C.S.

Douglas, W. R., M.B., Ch.B.,  
F.R.C.S.

Southam, A. H., M.A., M.D.,  
M.Ch. Ox., F.R.C.S.

Sutherland, D.M.K., M.D., F.R.C.S.

Graham-Bryce, A., M.D., D.P.H.,  
F.R.C.S.

Newell, R. L., M.D., F.R.C.S.

*Surgery, Operative*

## Lecturers :

Hughes, E. E., M.B., Ch.M.,  
F.R.C.S.

Southam, A. H. (also *Surg.*)

*Surgery, Regional*

Newell, R. L. (also *Surg.*) Lectr.

*Surgical Pathology*

## Lecturers :

Wright, G., M.B., Ch.B. Edin.,  
F.R.C.S.

Buckley, J. P. (also *Surg.*)

Clarke, H. O., M.B., B.Ch., B.A.O.  
Dub., F.R.C.S.

*Tuberculosis*

Sutherland, D. P., M.B., B.S.  
Lond. Hon. Clin. Lectr.

*Vaccination*

Chisholm, Catherine, C.B.E., B.A.,  
M.D. Lectr.

*Venereal Diseases*

## Clin. Instructors :

Reid, W. J. S., M.A., M.D. Aberd.,  
M.R.C.P.

Whitehead, G., M.B., Ch.B.

Byrd, Eliz. C., M.Sc., M.B., Ch.B.

Addis, W. R., M.C., M.B., Ch.B.  
Edin., F.C.O.G.

Burke, E. T., D.S.O., M.B., Ch.B.  
Glas.

Mumford, P. B., M.D., F.R.C.P.

Marinkovitch, R., M.D. Leeds.

**Bacteriology and Preventive  
Medicine**

(v. also Pathol.)

Maitland, H. B., M.D. Tor., M.Sc.,  
M.R.C.S., L.R.C.P.

Prof. and Director of  
Dept.

## Lecturers :

Fairbrother, R. W., D.Sc., M.D.,  
M.R.C.P.

Kerrin, J. C., M.D., D.P.H. Aberd.  
Ox., Ph.D. Aberd.

Heap, H., M.Sc. (San. and Bact.  
Chem.).

McGaughey, C. A., M.Sc., D.V.S.M.,  
M.R.C.V.S. (Vet. Bact.).

Holroyd, J., F.R.C.V.S., D.V.S.M.  
(Vet. Law and Admin.).

Burndred, E. J., M.C., D.V.H.  
Liv., M.R.C.V.S

(Principles of Meat In-  
spection)

Woods, W., M.Sc., F.R.C.V.S  
(Vet Hyg.) Hon. Lectr

Clegg, H. W., M.B., Ch.B., D.P.H.  
Asst. Lectr

Evans, D. G., M.Sc. (Chem.)  
Asst. Lectr

*Factory Hygiene*

Hood, W. D., M.B., Ch.B. Glas.  
D.P.H. Lectr

*Public Health Administration*

## Lecturers :

Walker, E. H., M.B., Ch.B., D.P.H.  
Hall, F., M.D., D.P.H.

*Sanitary Engineering*

Johnson, A. (v. also Archit.) Lectr

*Vital Statistics*

Scholefield, E. H., M.B., Ch.B. Ox.  
M.R.C.S., L.R.C.P., D.P.H.

Lectr

**Dentistry**

Wilkinson, F. C., M.D., B.D.S.  
Liv., D.D.Sc. Melb., M.Sc. (D.  
Surg.)

Director of Dental Hosp.  
and Prof.

Watkin, H. G., L.D.S. Liv. (Ortho-  
dontics) Sr. Clin. Lectr.

Houghton, E., L.D.S. Eng. (D.  
Surg.) Sr. Clin. Lectr.

**Lecturers :**

Matthews, E., M.Sc., Ph.D. Lond.,  
L.D.S. Eng. (D. Prosthetics).

Director, Prosthetics Dept.

Houghton, E., L.D.S. Eng. (Op.  
D. Surg.).

Newell, R. L., M.D., F.R.C.S.  
(Regional S.).

Thompson, Prof. F. C., B.Sc.  
Lond., D.Met. Sheff., M.Sc.  
(D. Metall.).

Rawsthorne, F., L.D.S. Eng. (D.  
Mat. Med.).

Maitland, Prof. H. B. (D. Bact.).

Baker, Prof. S. L. (D. Path.).

Brockbank, W., M.A., M.D. Camb.,  
M.R.C.P. (Med.).

Holt, J. K., L.D.S. (Op. Tech-  
nique).

Smith, J. W., L.D.S. (Op. Tech-  
nique).

**Clin. Lecturers :**

Bennison, H., L.D.S. Eng. (D.  
Surg.).

Cocker, R., L.D.S. (D. Surg.).

Lewis, P. R., B.D.S., L.D.S. (D.  
Surg.).

Parsonage, F. H., L.D.S. Eng. (D.  
Surg.).

Wilson, S. L., L.D.S. Irel. (Oral  
Surg.).

Moir, E., L.S.A. (Anæsthesia).

Jones, A. J., L.D.S. Eng. (D.  
Radiol.).

**Asst. Clin. Lecturers :**

Williams, J. N., L.D.S. (D. Pros-  
thetics).

Headridge, W., L.D.S. Eng. (Or-  
thodontics).

Ashcroft, G., L.D.S. (Oral Surg.).

Asst. Lecturer :

Monks, F. T., L.D.S. (D. Anat. and  
Physiol. and D. Histol.).

**Demonstrators :**

Ireland, S. L., L.D.S. (Op. Tech-  
nique).

Atkinson, H. F., L.D.S. (D.  
Prosth.).

Hawley, J. P., L.D.S. (Oral Surg.).

The Dental Hospital, which now  
forms part of the Univ., has in  
addition the following staff :

24 Consulting and Honorary Sur-  
geons, 6 Anæsthetists, 5 House  
Surgeons, 3 Instructors.

**Theology**

*Biblical Criticism and Exegesis*

Manson, Rev. T. W., M.A. Camb.,  
D.Litt., D.D. Glas.

Rylands Prof.

Wardle, Rev. W. L., M.A. Camb.,  
D.D. Dub. (Old Test.)

Reader.

Cheetham, Rev. Canon F. P.,  
M.A. Camb. (New Test.)

Lectr.

Findlay, Rev. J. A., M.A. Camb.,  
D.D. St. And. (New Test.)

Lectr.

*Christian Ethics*

Ramsey, Rev. K. V., M.A. Ox.,  
B.D.

Lectr.

*Comparative Religion*

Murphy, Rev. J., M.A. Glas. and  
Manc., D.D., D.Litt. Glas.

Prof.

*Early Church History*

Grieve, Rev. A. J., M.A. Ox., D.D.  
Lond.

Lectr.

*Ecclesiastical History*

Hussey, Joan M., M.A., B.Litt.  
Ox., Ph.D.

Asst. Lectr.

*Hellenistic Greek*

McLachlan, Rev. H., M.A., D.D.

Lectr.

*History of Doctrine*

## Lecturers :

Townsend, Rev. H., M.A. N.U.I.,  
D.D. Lond.

Brewis, Rev. J. T., B.A., B.D.

MacLeavy, Rev. G. W. M., B.D.  
Lond., M.A.

*Philosophy of Religion*

Lee, A., M.A. Camb. Lectr.

Emmet, Dorothy M., M.A. Ox.  
(from 29.9.38) Lectr.

*Psychology of Religion*

Lee, A., M.A. Camb. Lectr.

*Semitic Languages*

Robertson, E., M.A., D.D., D.Litt.  
St. And. Prof.

Fish, Rev. T., Ph.D. Camb.  
(Oriental Hist.) Sp. Lectr.

Rosenthal, E. I. J., Dr.Phil.  
Berlin Sp. Lectr.

Allam, M. M. (Arabic) Sp. Lectr.

Black, Rev. M., M.A., B.D. Glas.  
Ph.D. Bonn Asst. Lectr.

*Technology*

Jones, B. Mouat, D.S.O., M.A.  
Ox., Principal of the College  
of Tech. and Dean of the  
Faculty.

*Building Construction*

McKay, W. B., M.Sc.Tech.,  
M.R.S.I., M.I.Struct.E. Lectr.

Wilson, A. V., M.Sc.Tech.,  
M.I.Struct.E. Lectr.

## Asst. Lecturers :

Reid, D. A. G., B.Sc. (Eng.) Glas.

Cormack, W. A. S., A.R.I.B.A.

Bowles, R. E., B.Sc.Tech.,  
M.I.Struct.E.

*Chemistry, Applied*

Kenner, J., D.Sc. Lond., Ph.D.  
Heid., F.R.S. (Tech. C.) Prof.

## Lecturers :

Wood, J. K., D.Sc., F.I.C. (Phys.  
C.).

McCulloch, A., M.Sc.Tech., A.I.C.  
(Fuels).

Walker, T. K., D.Sc., Ph.D., F.I.C.

Howell, O. R., B.Sc. Wales, Ph.D.  
Camb., Wales, and Zür.,  
D.Sc., F.I.C.

Bradley, W., M.Sc., Ph.D. (Tinc.  
C. and Dyestuffs).

Handford, C., M.Met. Shef. (Metall.  
and Assaying).

Neale, S. M., M.Sc. Liv., D.Sc.  
(Cellulose C.).

Short, W. F., D.Sc. (Org. C.).

Cowen, W., M.Sc. (Chem. Eng.).

Cardwell, D., M.Sc., B.Com., F.I.C.  
Sp. Lectr.

## Asst. Lecturers :

Chadwick, Marion, M.Sc.Tech.  
(Foodstuffs).

Craven, May B., M.Sc.Tech.,  
A.I.C.

Hancock, A., M.Sc.Tech., F.I.C.

Fowler, E. A., B.Sc. Glas. (Metall.  
and Assaying).

Bloomer, V., M.Sc., A.I.C.  
(Electro-C.).

Ward, A. F. H., B.Sc.Lond., M.A.,  
Ph.D. Camb. (Phys. C.).

Baddeley, G., M.Sc., Ph.D. Sheff.  
(Org. C.).

## Demonstrators :

Mounfield, J. D., M.Sc.Tech.,  
Ph.D., A.I.C.

Adamson, D. W., M.Sc.Tech.,  
Ph.D.

Hampton, T. E. H., B.Sc. Lond.,  
A.R.C.S. (Chem. Eng.).

Walker, W. S., M.Sc.Tech.

Wainwright, W. G., M.Sc.Tech.

*Chemistry, Textile*

## Lecturers :

Scholefield, F., B.Sc. Lond. and  
Leeds, M.Sc. Manc., F.I.C.,  
F.T.I. (Bleaching, Dyeing,  
and Printing).

Bailey, F. W., A.I.C. (Paper-  
making).

Hibbert, Eva, M.Sc.Tech. (Ap-  
plied C.) Asst. Lectr.

Preston, J. M., B.Sc. Liv., A.I.C.  
Asst. Lectr.

Turner, H. A., M.Sc. Sheff., A.I.C.  
Asst. Lectr.

*Engineering, Electrical*

Hollingworth, J., M.A. Camb.,  
D.Sc. Lond., M.Sc.Tech.,  
M.I.E.E. Prof.

Lecturers :

Langton, J. L., M.Sc., M.I.E.E.  
Moore, A. E., M.Sc.Tech., M.I.E.E.  
Clayton, A. E., D.Sc. (Eng.) Lond.,  
M.I.E.E.

Asst. Lecturers :

Glynne, A., M.A. Camb.  
Freeman, G. F., M.Sc. (Eng.) Lond.  
Stamford, N. C., M.Sc.Tech.  
Barratt, N. M., M.Sc.Tech.  
Pereira-Mendoza, V. M., B.Sc.  
Tech. Demr.

*Engineering, Mechanical*

Smith, Dempster, M.B.E., M.Sc.  
Tech., M.I.Mech.E. Prof.

Lecturers :

Boswall, R. O., D.Sc. (Eng.) Lond.,  
M.Sc.Tech., M.I.Mech.E.  
Ferguson, R. M., M.Sc.,  
M.I.Mech.E.

Bevan, T., M.Sc.Tech.  
Oakden, J. C., M.A. Camb., M.Sc.  
Tech.

Lamble, J. H., M.Eng., Ph.D. Liv.

Asst. Lecturers :

Brierley, J. C., M.Sc.Tech.  
Whittaker, J. R., M.Sc.Tech.,  
Ph.D.

Marsh, W., B.Sc. Durh.  
Morrison, J. G., M.Sc.Tech.  
Old, C. L., B.Sc. (Eng.) Lond.  
Morris, R. A., M.Eng. Sheff.

*Engineering, Municipal*

Lectrs. :

Cornish, R. J., M.Sc., M.R.S.I.  
Johnson, A., M.Sc. Durh., F.R.S.I.

Asst. Lecturers :

King, W. H., B.Sc. Durh., M.R.S.I.  
Morgan, Elwyn Ll., B.Sc. Wales.

*Industrial Administration*

Lecturers :

Fenelon, K. G., M.A., Ph.D. Edin.

Garden, D. J., M.A., B.Com. Aberd.,  
Ph.D.

Yates, M. L., M.A. (Com.),  
M.Sc.Tech.

*Languages, Modern*

Eaton, R. S., M.A. Asst. Lectr.

Jackson, H. S., B.A. Asst. Lectr.

*Mathematics*

Lecturers :

Bowman, F., M.A. Camb., M.Sc.  
Tech.

Hunter, W., M.A. Camb., B.Sc.  
Lond.

Verblunsky, S., B.A., Ph.D. Camb.,  
M.Sc. Lond.

Asst. Lecturers :

Tilsley, H., B.Sc. (Eng.) Lond.

Hawkes, J. H., M.Sc.

Howarth, A., M.Sc.

*Mining*

Williams, N. T., B.Sc. Wales,  
M.I.M.E. Lectr.

*Physics*

Taylor, W. H., D.Sc., Ph.D. Lectr.  
Walmsley, H. P., D.Sc., F.I.P.

Lectr.

Asst. Lecturers :

Anderson, W., B.Sc. Glas.

Bor, J., B.Sc., M.Sc.Tech.

Smare, D. L., B.Sc., M.Sc.Tech.

Demr.

*Textile Industries*

[Prof.]

Morton, W. E., M.Sc.Tech., F.T.I.

Lecturers :

Hanton, W. A., M.Sc.Tech. (Weav-  
ing and Textile Engin.).

Chirnside, J. (Textile Design).

Spibey, H., M.Sc.Tech. (Spinning).

Turner, H. P., M.A., LL.M. (Fac-  
tory Law).

Essam, J. M., M.Sc.Tech., F.T.I.  
(Weaving).

Sp. Lecturers :

Bowden, K. W., B.Com. (Yarn  
and Cloth Markets).

Bell, H. S., F.T.I. (Hosiery  
Manuf.)

Litt D ; Gertrude Caton-  
Thompson.

Asst. Lecturers :

Bennett, G. A., M.A. (Com),  
M.Sc.Tech, F.T.I. (Weaving),  
Riley, A., B.Sc, M.A. (Com),  
M.Sc.Tech. (Textile Engin.).

Extra-Mural Department

Directors of Extra-mural Studies  
—H. P. Turner, M.A., LL.M.;  
R. D. Waller, M.A.

Staff Tutor — W. Bruce, B.Sc.  
Lond.

Ludwig Mond Lecturers

1937-38 : R. G. Stapledon, C.B.E.  
M.A., R. M. Henry, M.A.,

Resident Tutor — . . . . .

## ASSOCIATED COLLEGES

THE COLLEGE OF TECHNOLOGY became connected with the Univ. of Manchester in 1905 in the Fac. of Techn., the greater part of the work of which is conducted in the College, whose Principal is Dean. The work of the College includes advanced study and research in the subjects specified above and hydraulic experimental work, motor-car engineering, and india-rubber technology. From Oct. 1934 recognized for B.Sc. (Eng.) degree for external students, London Univ.

### COLLEGES recognized for External Lectures in Theology :

BAPTIST COLLEGE, EGERTON HALL, HARTLEY VICTORIA METHODIST COLLEGE, MORAVIAN COLLEGE, Fairfield, and UNITARIAN COLLEGE at Manchester ; LANCASHIRE INDEPENDENT COLLEGE, Whalley Range ; METHODIST COLLEGE, Didsbury.

Recognized for instruction in Maths., Physics, Chem., and Biol. up to Interm. standard for B.Sc. and B.Sc.Tech. : the HARRIS INSTITUTE, Preston.

For third year of B.Sc. Tech. course in Metal Mining : the CAMBORNE SCHOOL OF METALLIFEROUS MINING.

## GENERAL INFORMATION

The Victoria University of Manchester was reconstituted by Royal Charter in 1903 and Owens Coll. incorporated with it by Act of Parl. in 1904. For early history, see *Yearbook* for 1929.

Most of the buildings, arranged in two quadrangles, and erected from time to time during the past 50 years, are situated in the city. The Departments of Bacteriology and Preventive Medicine and Pathology are  $\frac{1}{2}$  mile distant, adjoining principal hospitals. The athletic ground (30 acres) is at Fallowfield, about  $1\frac{1}{2}$  miles distant, while a further 41 acres were acquired for athletic purposes at Wythenshawe, about 3 miles distant.

**LIBRARIES.** The main library (over 300,000 vols.) is housed in two divisions. The books concerning the Arts and allied faculties are placed in the new building (completed in 1936). The books on scientific subjects remain in the old (Christie) building, which also contains the Library of the Manchester Museum. The library includes the private collections of Profs Freeman and Stanley Jevons and Dr. Christie. Scientific periodicals are taken in by the Univ. in co-operation with the Manchester Literary and Philosophical Society, so that between them all the most important are available for both. The Medical Society's and the Radford Library (80,000 vols.) are housed in the Med

School, and available for students. The Library for Deaf Education (over 7000 vols.) is available to all interested in the educn. of the deaf. There is also in the city of Manchester the John Rylands (350,000 vols.), which includes the Althorp Library and the Crawford collection of MSS. It contains one of the most important collections of early printed books in existence. The ancient Chetham Library (100,000 vols.) has valuable mediæval MSS. and printed books of 17th and 18th centuries and a collection of vols. dealing with local history. The Municipal Reference Library (287,000 vols.) is valuable for more recent books and periodicals, and in connexion with it there is a Technical and Science Library (45,000 vols.). The College of Technology Library (20,000 vols.) includes the abridgements of specifications of patents from 1855 to date, and is devoted to applied science and technol.

**LABORATORIES, ETC.** Ample equipment for advanced study and research in all departments; special provision for Electro-Technics, Economic Zoology (including Agric. Entom.) and Botany (including Horticulture), Radio-activity, Ionization of Gases, Colloids, and Cancer. *Pathological Museum* (Hon. Curator—Emer. Prof. E. D. Telford, M.A., B.C. Camb., M.Sc., F.R.C.S.). The *Manchester Museum* (Keeper—R. U. Sayce, M.A.), forming part of the Univ. buildings, and containing among other special depts. the Flinders Petrie Egyptol. Collection, is utilized for Univ. teaching in Zool., Bot., and Geol.; it is also used for systematic instruction of Elem. school children. Available for clinical instruction are 4 general Hospitals, 1 Dental and 9 other special hospls., including the Christie Hospital (Cancer), and Holt Radium Institute.

**FACULTIES.** (1) Arts [including School of Architecture]; (2) Science; (3) Law; (4) Medicine [including Departments of Dental Science, Pharmaceutics, and Bacteriology and Preventive Medicine and Pub. Health]; (5) Music; (6) Commerce and Administration [including Social Study]; (7) Theology; (8) Technology (provided by the Municipal College of Technology); (9) Education [training for work in Secondary, Elementary, and Day Continuation Schools, in Schools for the Deaf, and with Young Children.] *Deans of Faculties:* (1) Prof. T. B. L. Webster (Greek); (2) J. M. F. Drummond (Bot.); (3) Prof. R. A. Eastwood (Law); (4) Prof. H. B. Maitland (Bacteriol.); (5) Prof. D. R. Hartree (Music); (6) Prof. J. Jewkes (Social Econ.); (7) Rev. W. L. Wardle (Old Test.); (8) Principal B. Mouat Jones (Technol.); (9) ..... (Edn.) *Tutors:* J. Marks, M.A.; (2) J. E. Myers, O.B.E., D.Sc.; (3) D. Blank, LL.B. (Art Clerks); (4) W. Schlapp, B.Sc., M.B., Ch.B., Ph.D. (6) Frances Collier, M.A.

**WOMEN STUDENTS.** Adviser—Phyllis E. Crump, M.A.

**ADMISSION.** See Appendix I.

**INDIAN STUDENTS.** Adviser, J. K. Wood, D.Sc. Applications from Indian students for registration should be received, with references as to character and educational qualifications, not later than May 31.

**DEGREE COURSES.** 3 yrs. (graduates of other approved Univs., 2 yrs.)—B.A., B.Sc., LL.B., Mus.B., B.A. (Com.), B.A. (Admin.), B.D. (after Intern. courses in Arts), B.Sc.Tech.; 5 yrs.—B.A. (Hons. in Archit.), B.D.S.; 6 yrs.—M.B., Ch.B. The B.A. (Com.) and B.A. (Admin.) courses can be completed by attendance on evening lectures.

The B.Sc. degree may be awarded with Honours in General Science (v. p. 7).

Hons. students of mod. foreign langs. may count attendance on approved courses for a term at a foreign Univ. as equivalent to attendance at Manc.



Minimum attendance in the Univ. for graduation—3 yrs. Minimum attendance for Bachelorship in 2 Faculties—5 yrs.

**HIGHER DEGREES.** Open to Bachelors of 1 yr. standing—M.A., M.Sc. (2 yrs. if graduates of other Faculties), Ch.M., M.D., M.D.S., M.A. (Com.), M.A. (Admin.), M.Sc.Tech.; 2 yrs.—LL.M., M.Ed.; 4 yrs.—D.Sc., LL.D., Mus.D., D.D. Open to Masters or Doctors of Philosophy of the Univ. only: Litt.D.

Open to graduates of other approved Univs. through research in Manc. during 2 (non-graduates 3) yrs.—M.A., M.Sc., LL.M., M.A. (Com.), M.A. (Admin.), M.Sc.Tech., M.Ed. (open only to graduates). Graduates of other approved Univs. of 4 yrs.' (D.D. 6 yrs.) standing who have obtained the degree of Master or one substantially equivalent thereto and spent 2 yrs. in study or research in Manc. may qualify for the D.Sc., LL.D., D.D.

The Ph.D. differs from the Litt.D. and D.Sc. in requiring a definite course of study, and is of a lower standard, though higher than the M.A., M.Sc., and M.Sc. Tech. (v. p. 13).

**DIPLOMAS.** Geog. (grads.), 1 yr. course; D.V.S.M., open to M.R.C.V.S. only, 12 mos.; Psych. Med. 1 yr., including 2 terms at the Univ.; D.P.H., 1 yr. Teacher's (grads.), 1 yr.; Archit., 5 yrs. Town and Country Planning (1 yr. after Certif. status); L.D.S., 4 yrs.; Dp. Bact. (1 yr. post-grad.); Social Study (2 yrs.; approved grads. and holders of Certif. in Pub. Admin., 1 yr.); Chem. Engin. (1 yr. post-grad.).

**CERTIFICATES.** Engin., 3 yrs.; Applied Chem., 3 yrs.; Mining, 3 yrs.; Higher Commercial, 2 yrs. (grads. 1 yr.); Public Administration, 2 yrs.; Social Administration, 2 yrs.; Theol., 3 yrs.; Biblical Knowledge, 1 yr.; Tech. (Assoc. Coll. Tech.), 3 yrs.; Tech. (Distinction), 1 yr. after Cert. in Tech.; Photog. Tech., 2 yrs.; Indust. Admin., 1 yr. (grads. or holders of Cert. in Tech.); Certif. for Teachers of the Deaf, 1 yr. (grads. and certificated teachers); Town and Country Planning, 2 yrs. Candidates for certificates are required, before entering on the course, to pass or obtain exemption from an entrance examn.

Certif. in Mining and the B.Sc.Tech. in Mining are accepted by Govt. in lieu of 2 out of 5 yrs.' practical experience for Mine Manager's Certif.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** A considerable number are offered every year by the Univ., most of them reserved for its own graduates, but some—in Anatomy, £150; Econ., £100 and £120; Engin., £200; Bot. or Zool., £200; Diseases of Children, £100; History, £50; Local Govt., £50; Maths., £70; Physics, £200; Physiol., £90; Cancer Research, £300; Prev. Med., £300; Mun. Engin. or Bact. and Prev. Med., £150; Psychological Med., £150—are open to foreign students; others—in Cotton Industry, £100; History, £50; Agric. Zool., £120—are open to British subjects who have graduated at other Univs. Honorary Research Fellowships and Research Studentships, entitling the holders to the use of facilities for research either free or at greatly reduced fees, are also awarded. *See also App. II. passim.*

**FEES.** Tuition, per session, including Students' Union and Athletic Union fees: for B.A. course, 30½ gs. (Hons. in Archit., first 3 yrs. 35 gs. per session, 4th and 5th yrs. 22½ gs. per session); B.Sc., 30½ to 45½ gs.; M.B., Ch.B. (5 sessions), 154½ gs., *plus* Hospl. fees, 89 gs.; LL.B. (3 sessions), 40 gs.; B.D., about 15 gs. (*plus* Registration fee of 3 gs.) per session; B.A. (Com.), B.A. (Admin.), 20 gs. to 24 gs.; Mus.B., from 21 gs. to 29 gs. per session *approx.* according to options selected; B.D.S., 96 gs., *plus* Hospl. fees, 170 gs.; L.D.S., 86 gs., *plus* Hospl. fees, 155 gs.; B.Sc.Tecn., *about* £40-£60; Teachers'

Dipl., £35 : 10 : 6. Examn. fees : Med., 32 gs., others (Interm. and Final) for first degrees about 6 gs. (B.Sc., 4 to 5 gs.). Graduation fees, 8 gs. (Doctorate, 5 gs.).

Research fees, 7 to 10 gs. per session in Arts, Commerce, and Law ; Educn., 4 gs. ; higher fees for science students.

**HOSTELS.** For men : Hulme Hall (Warden : Rev. A. H. White, M.A.), 75 to 85 gs. ; Dalton Hall (Principal : G. A. Sutherland, M.A.), £108 (for 31 weeks) ; St. Anselm Hall (Warden : Rev. T. H. South, M.A.), £80 (for 30 weeks) ; Lancashire Independent College (Principal : Rev. A. J. Grieve, M.A.), £81 first two sessions, subsequently £72 (full Univ. terms) ; Unitarian College (Principal : Rev. H. McLachlan, M.A., D.D.), £80 (full Univ. terms). For women : Ashburne Hall (Warden : Miss J. Mitchell, B.A., L.R.A.M.), 66 to 70 gs. ; Langdale Hall (Warden : Miss D. M. Newcomen, M.A.), chiefly for women training students, whose fees are £36, private students £70 ; Ellis Llwyd Jones Hall (Warden : Miss H. M. A. Buckmaster, M.A.), special hostel for students in training as teachers of the deaf, £66 to £70 ; St. Gabriel's Hall (Warden : Miss D. C. Prosser, M.A.), (for Rom. Catholic women students), £55 to £65 ; Lister House (Warden : R. Ellis, M.D., M.R.C.P.), a Hall for residence of Medical Students, both men and women, residence compulsory during a period of 3 months in one of their Clinical Years at a charge of £2 : 7 : 6 per week.

Donner House provides accommodation for staff and senior research student.

**CONVOCATION** consists of all grads. since 1914 (earlier grads. admitted on payment of fee of 5s.). The duties and privileges of Convocn. include the election of the Chancellor of the Univ. District Groups (Manchester, London, Leeds, Sheffield) of Convocn. provide social and other facilities for graduates.

All PAST AND PRESENT MEMBERS of the Univ. are eligible for membership of the "Old Owensian Assocn.," which publishes periodically a register of members with occupations and addresses and a *Journal* (thrice yearly).

**ADULT EDUCATION.** The Committee for the organization of the Extramural work of the Univ. and the Joint Committee for Tutorial Classes are responsible for the provision of facilities for Adult Education at the Univ. itself and at other Centres. Public Lectures, Univ. Extension Courses, Tutorial Classes for Workpeople, and other Classes for adult students are arranged, and Tutors and Lecturers are appointed.

**APPOINTMENTS BOARD.** Secretary, Olive B. Schill, M.A. Camb., The University, Manchester, 13.

**PUBLICATIONS.** (1) Periodical : (a) *Calendar* (Sept.), 5s. and 3s. ; *Prospectus of Advanced Studies : Examn. Papers*, 9d.-1s. 3d. a set, by Faculties ; *The Journal of the University* (Annual) ; *Manchester School*, March and Oct. (Economic and Commercial), 5s. p.a. ; Departmental Prospectuses (April-May). (b) Also published by Univ. Press : *Journal of Manc. Egyptian and Oriental Soc.* ; Pubns. of Chetham Society, Manchester ; Pubns. of Brit. Soc. of Franciscan Studies ; Bulletin of John Rylands Library. (c) Students' Pubns. : *The Serpent* (Magazine), *The Circle* (Literary), *Science Fed. Journal*, *Medical School Gazette*. (2) *The Victoria University of Manchester* ; a short historical and descriptive account, The Univ. Press, 1930.

**Histories :** "The Owens College: its Foundation and Growth, and Connexion with the Victoria Univ.," by Joseph Thompson. Manchester, J. E. Cornish, 1886. "The Owens College," by P. J. Hartog. Manchester, J. E. Cornish, 1900. "Chapters in the History of Owens College and of Manchester University, 1851-1914," by E. Fiddes. Manchester, Univ. Press, 1937.

## THE YEAR 1936-37

**BENEFACTIONS.** Public Appeal for maintenance and development of University's work launched in March 1937. To October 1937, gifts and promises received amounting to £134,000, together with gift of a new Dental School and Clinic by Mr. Samuel Turner, J.P., of Rochdale. Miss Annie Hyde, £100, and Mr. G. C. Haworth, £75 (for Dental Hospital); Dr. Jesse Haworth, collection of old Wedgwood Ware (for Museum); Mr. Randal Mundy, scientific books (for Museum Library) and residue of estate for purchase of specimens, etc., in connexion with Botany, Zool., and Geol.; Miss Eva Dodge, £50; Sir Robert McDougall, £400 for repair of property previously presented; Col. Dudley Mills, his valuable collection of maps and charts; anon., £645 for alterations to Ladybarn House School. *Grants:* Annual grants increased: Derbyshire County Council, from £750 to £1250; County Borough of Oldham, from £250 to £500; County Borough of Blackpool, from £105 to £210. New Grants: Rockefeller Foundation, £5000 (over 4 yrs.) for research in Organ. Chem., and £300 for research in Physical Chem., with promise of further £300 p.a. for 2 yrs.; Social Science Research Council (U.S.A.), \$3500 for enquiry on Public Admin. by Economics Research Section; Leverhulme Trustees, £500 annually for further 3 yrs. for Dept. of Education of Deaf; Iron and Steel Institute, £250 for work in Metall. Dept. on alloy steels; Manchester Law Soc., addnl. grant of £200 (£1200 in all) to Law Dept. for current session; Milk Marketing Board, £500 for investigation of detection of tubercle bacillus in milk; Cassel Trustees, £300 annually for further 3 yrs. in aid of Spanish Dept. Special grant from University Grants Committee of £12,000 towards adaptation of Drill Hall for provision of facilities for Physical Education and Athletics.

**NEW BUILDINGS AND EXTENSION OF BUILDINGS.** New Library Building opened by Sir Walter Moberly (June). Completion of reconstruction of Rectory block. New Staff House completed and occupied. Plans for new Dental Hospital on site facing Medical School in preparation.

**NEW DEPARTMENTS AND POSTS.** Institution of Chair of Theoretical Physics. Staffing of Dental Dept. reorganized, including full-time Lectureship in Operative Technique. Appointment of part-time Secretary to Appts. Board.

**OTHER DEVELOPMENTS.** Various General Lectures (open to all students) arranged by Fac. of Arts. Increased co-operation between Fac. of Music and Royal Manchester Coll. of Music. Investigation of cost of milk production, and research on problems of eelworm and wireworm undertaken by Agricultural Advisory Dept., with support of Ministry of Agriculture and farmers' organizations. Museum Library transferred to Univ. Library building (Science section). Signal Unit with establishment of 55 cadets, formed Oct. 1936 and attached to O.T.C. contingent. Publicn. of first annual issue of "Univ. Journal," distributed gratis to every graduate. Large numbers of general public visited Univ. on two Open Days (July 1937).

**CHANGES IN REGULATIONS.** Amendment of Ord. to permit presentation for M.A. in a subject other than that of first degree after attendance upon approved addnl. courses. Revision of Regns. for Hons. Sch. of Chem. making provision for subsidiary options in Biol. and Physiol.

**EXTRA-MURAL WORK.** 65 Tutorial Classes, 21 Preparatory Classes, and one Advanced Class in 42 different towns and villages. 14 Extension Courses at Univ. and outside centres in addition to 39 single lectures and one Extension course given for public and Secondary Schools of Lancashire and Cheshire

County authorities. 173 students and 21 tutors attended Summer School at Bangor in July and August.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES AND OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Prof. Carl Henschen (Basel) lectured in Surgery Dept. in Mich. Term, and Prof. John Morley lectured in Surgery Dept. at Univ. of Basel in May 1937.

Other Visitors included: Conference of Advisory Entomologists held in Univ., July 1937. Vacation Course for Teachers of Deaf Education, July 1937. Members of Staff and students of Engin. Dept., Univ. of Capetown, Jan. 1937. The Faraday Society, including many representatives of colonial and foreign Univs., held a symposium on Reaction Kinetics in the Univ. in Sept. 1937.

PUBLIC LECTURES GIVEN AT THE UNIVERSITY. Rev. E. W. Smith, "African Religion." Sir Arnold Wilson, "The Reform of the Law—a Lay View." Mr. A. M. Henderson, "Composers of To-day." Mrs. A. M. Henderson, "Shakespeare and the Reader." Dr. Cyril Norwood, "Education for Citizenship." Prof. D. Talbot Rice, "Byzantine Art." Dr. Paul Jacobsthal, "Early Celtic Art." Prof. Li Chi, "The Dawn of History in China" (2 lects.). Bishop Crotty, "Australia." Dr. E. J. Rubin, "Visual Perception, Reality and Art." Prof. A. M. Blackman, four lectures on Egyptian subjects. Prof. A. E. Richardson, "The Art of Architecture." Dr. E. I. J. Rosenthal, "Don Isaac Abravanel." Dr. G. W. Corner, "The Corpus Luteum and its Hormones."

*Ludwig Mond Lectures.* Prof. G. H. Thomson, D.Sc., Ph.D., "Intelligence and Civilization." Sir J. B. Orr, D.S.O., M.C., LL.D., F.R.S., "The New Science of Nutrition and Human Progress." Prof. R. W. Chambers, M.A., D.Litt., F.B.A., "Shakespeare and the Old Play of Sir Thomas More."

DEATHS. Dr. A. Donald (Prof. of Obstet. and Gynæcol., 1912–1925 and subsequently Prof. Emeritus); Mr. G. E. Loveday (Clin. Pathol.); Miss E. R. Dust (Text. Design); Dr. T. A. Goodfellow (Med. Ethics); G. W. Daniels (17.12.37), Prof. of Commerce and Admin. 1921–27, Prof. of Polit. Econ. since 1927, Pro-Vice-Chancellor 1937.

RESIGNATIONS. Prof. W. L. Bragg on appt. as Director of National Physical Laboratory; Prof. J. F. Duff on appt. as Warden of the Durham Colleges; R. W. James on appt. to Chair of Physics in Univ. of Capetown; Dr. Donal Sheehan on appt. as Prof. of Anatomy in College of Med., Univ. of New York; E. B. Manley on appt. as Director of Prosthetics Dept., Edinburgh Dental School; C. R. Cheney on appt. to a parish in Dorset.

RETIREMENTS. Prof. A. Ramsbottom (Clin. Med.); J. Orr (Agric. Econ.).

HONORARY DEGREES. LL.D.—Sir Robert McDougall (Deputy-Treasurer), Sir Percy Malcolm Stewart. Litt.D.—Col. Luxmoore Newcombe. Mus.D.—Sir Thomas Beecham. M.A.—Thomas Brown, E. Bosdin Leech.

STUDENTS. Full-time, 2353; part-time, 331. These numbers include 528 graduates who registered for courses.

DEGREES. B.D., 7; B.A., 142; M.A., 18; LL.B., 19; LL.M., 3; B.Sc., 138; M.Sc., 28; D.Sc., 5; M.B., Ch.B., 42; M.D., 7; Mus.B., 4; Mus.D., 3; B.A. (Com.), 20; M.A. (Com.), 4; B.A. (Admin.), 20; M.A. (Admin.), 2; B.Sc.Tech., 63; M.Sc.Tech., 19; M.Ed., 5; Ph.D., 25.

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of Balliol.

PROCTORS—T. D. WELDON, M.A. Magd.; R. PARES, M.A. All Souls.

REPRESENTATIVES IN PARLIAMENT—*See* p 18.

ASSESSOR OF THE CHANCELLOR'S COURT—A. E. W. HAZEL, K.C.,  
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ASSISTANT REGISTRAR—S. CALDWELL, M.A. Wadham.

NOTE.—The Colleges and Heads of Colleges are given on pp. 251 ff.

Telephone : Registry—Oxford 2428.

## TEACHING STAFF

- |  |  |
|--|--|
| <i>Agriculture</i> , v. <i>infra</i> Rural Econ. | <i>Anglo-Saxon</i>                     |
| <i>Anatomy</i> , v. also Zoology, Med.           | Tolkien, J. R. R., M.A. Pemb.          |
| Clark, W. E. Le G., D.Sc. Lond.,                 | Rawlinson and Bosworth Prof.           |
| M.A. Hertf., F.R.C.S., F.R.S.                    | <i>Anthropology, Physical</i> [Reader. |
| Dr. Lee's Prof.                                  | Buxton, L. H. D., M.A., D.Sc. Exe      |
| Odgers, P. N. Blake, M.Ch., D.M.                 | <i>Anthropology, Social</i>            |
| Linc.  | Radcliffe-Brown, A. R., M.A.           |
| Reader, Lectr. and Demr.                         | Camb. and All S. Prof.                 |
| Carleton, Mrs. Alice B., M.A.,                   | Cross, Rev. F.L., M.A., D.Phil. Ball.  |
| O.H.S. Lectr. and Demr.                          | Wilde Lectr. in Nat. and               |
| Blackwood, Beatrice M., M.A.,                    | Comp. Relig.                           |
| B.Sc. Som. (Ethnol.)                             |  |
| Lectr. and Demr.                                 | <i>Archæology</i> , v. also Oriental   |
| Zuckerman, S., D.Sc. Lond., M.A.                 | Langs.                                 |
| Ch. Ch. (Human A.)                               | Beazley, J. D., M.A. Linc. (Classi-    |
| Lectr. and Demr.                                 | cal A. and Art) Lincoln Prof.          |

Casson, S., M.A. New Coll. (Classical A.) Reader.  
Jacobsthal, P., M.A. Ch. Ch. (Celtic A.) Reader.

*Art*

Hendy, P. A., B.A., Ch. Ch. (Fine Art) Slade Prof.  
Rutherford, A. D., M.A. (Drawing) Ruskin Master.

*Assyriology*, v. Oriental Languages

*Astronomy*

Plaskett, Prof. H. H., M.A. New Coll., F.R.S. Savilian Prof.  
Page, T. L., B.Sc. Yale Chief Asst.  
Hughes, J. S., M.A. New Coll. (Seismol. Chief Asst.  
Zanstra, H., D.Phil. Minn. Radcliffe Travelling Fellow  
Adam, Madge G., B.A. St. Hugh's Research Asst.  
Bellamy, Ethel F., M.A. (Seismol.) Asst.

*Bio-Chemistry* [Whitley Prof.

Peters, R. A., M.C., M.A. Trin.  
Whitley, E., M.A. Trin. Demr.

Lectrs. and Demrs. :

Walker, E., M.A., D.Phil. St. Joh.  
Carter, C. W., M.A., B.M. Queen's  
Fisher, R. B., M.A., B.Sc., D.Phil. St. Joh.

*Botany*, v. also Rural Econ.

Osborn, T. G. B., D.Sc. Manc., M.A. Magd. Sherardian Prof.

Lectrs. and Demrs. :

Clapham, A. R., M.A. Magd.  
Wilkins, W. H., M.A., D.Phil. Keb.  
James, W. O., M.A., D.Phil. Oriel.

*Celtic*

Fraser, J., M.A. Jes. Jesus Prof.

*Chemistry* [Waynflete Prof.

Robinson, R., D.Sc. Durh. and Manc., M.A. Magd., F.R.S.  
Hinshelwood, C. N., Sc.D. Dub., M.A. Exe., F.R.S. (Phys. C.) Dr. Lee's Prof.  
Sidgwick, N. V., C.B.E., LL.D. Liv., M.A. Linc., F.R.S. Prof. and Reader.

Lectrs. :

George, H. J., M.A. Jes.  
Russell, A. S., M.A. Ch. Ch.

Lectrs. and Demrs.:

Hope, E., M.A. Magd.  
Hammick, D. L., M.A. Oriel.  
Plant, S. G. P., M.A., B.Sc., D.Phil. Magd.  
Taylor, T. W. J., M.A. B.N.C.  
Baker, W., M.A. Qu.  
Smith, J. C., M.Sc. N.Z., Ph.D. Manc., M.A., B.Sc. New Coll.  
Lambert, B., M.A., D.Sc. Mert. Aldrichian Prælector.  
Brewer, F. M., M.A., B.Sc. Linc.  
King, F. E., M.A., D.Phil. Oriel.  
Thompson, H. W., M.A., B.Sc. St. Joh.  
Bowen, E. J., M.A. Univ.  
Wolfenden, J. H., M.A. Exe.  
Hartley, E. G. J., M.A. Ch. Ch. Demr.

*Classics*, v. also Archæol.

Dodds, E. R., M.A. Ch. Ch. (Greek) Reg. Prof.  
Tod, M. N., M.A. Or. (Greek Epigraphy) Reader.  
Fraenkel, E. D. M., Dr. phil. Göttingen, M.A. Camb. and C.C.C. (Latin) Corpus Prof.

*Colonial Administration*

Perham, Margery F., M.A. St. Hu. Research Lectr.

*Crystallography*, v. Mineralogy

*Diplomatic*

Cheney, C. R., M.A. Wadh. Reader.

*Divinity*, v. Theology*Economics*, v. also Pol. Econ.

Cole, G. D. H., M.A. Univ. Reader.

*Education*

Jacks, M. L., M.A. Wadh.

Director.

Icely, H. E. McL., M.A. B.N.C.

Reader.

Talbot, Elfrida M., M.A. St. Hu.

Lectr. and Tutor to  
Women Students, and  
Principal of the  
Women's Hostel.

## Lectrs. and Tutors :

Jones, L. G. E., M.A. Ball.

Tomlinson, Leila, M.A. Som.

Yeaxlee, B. A., M.A., B.Litt. St.  
Cath.

Williams, R. E., M.A. B.N.C.

*Egyptology*, v. Oriental Langs.*Embryology*, v. Zool.*Engineering Science*, v. also Sur-  
veying

Southwell, R. V., M.A. B.N.C.,  
F.R.S. Prof.

Moullin, E. B., M.A. Magd.

Donald Pollock Reader.

Binnie, A. M., M.A. New Coll.

Lectr. and Demr.

Belfield, V., M.A. Camb. and  
B.N.C. Lectr. and Demr.

*English*, v. also Anglo-Saxon,  
Poetry

Smith, D. Nichol, D.Litt. Dur.,  
M.A. Edin. and Mert.

(E. Lit.) Merton Prof.

Wyld, H. C. K., M.A., B.Litt.  
Mert. (E. Lang. and Lit.)

Merton Prof.

Abercrombie, L., D.Litt. Camb.,  
D.Lit. Belf., Litt.D. Manc.,  
M.A. Liv. and Mert.

Goldsmiths' Reader.

Onions, C. T., M.A., D.Litt. Magd.  
(Eng. Phil.) Reader.

Brett-Smith, H. F. B., M.A. C.C.C.  
(Eng. Lit.) Reader.

Wrenn, C. L., M.A. Qu. (E. Lang.)  
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Everett, Dorothy, M.A. L.M.H.  
(Middle Eng.) Lectr.

Lewis, C. S., M.A. Magd.  
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*Forestry*, v. also Surveying,  
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Troup, R. S., C.M.G., C.I.E.,  
M.A., D.Sc. St. Joh., F.R.S.  
Prof.

## Demrs. :

Chalk, L., M.A., D.Phil. Univ.  
(Structure, etc. of Wood).

Day, W. R., M.A., B.Sc. Exe.  
(Mycol. and Pathol.).

Chrystal, R. N., D.Sc. Edin., M.A.  
(Entomol.).

Lloyd, A. H., M.C., M.A. Exe. (F.  
Utilization and Engin.).

Burt Davy, J., M.A., D.Phil.  
Univ. (Systemat. F. Bot.).

## Imperial Forestry Institute :

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Ch. Ch.

## Lectrs. and Demrs. :

The Demrs. above.

Troup, R. S., M.A., D.Sc. St. Joh.  
(Silviculture).

Hoyle, A. C., B.Sc., M.A. Pemb.  
(Syst. F. Bot.).

Brown, J. M. B., B.Sc. Belf. (F.  
Entomol.).

Chattaway, Mary M., M.A., B.Sc.,  
D.Phil. St. Hugh's (Structure,  
etc. of Wood).

Peace, T. R., M.A. Camb. (Mycol.  
and Pathol.).

*French Language and Lit.*

Rudler, G., Dr. ès L. Paris, M.A.  
All S. (Fr. Lit.) Foch Prof.,

Lectrs. :

Moore, W. G., M.A. St. Joh.  
 Johnston, R. C., M.A. Mert.  
 (Philol. and Old F. Lit.)  
 Bisson, L. A., M.A. Pemb. (Fr.  
 Lit.)  
 Starkie, Enid M., M.A. Som.  
 Hunt, H. J., M.A., D.Phil. St.  
 Edm. H.  
 Chesney, Kathleen, M.A., D.Phil.  
 St. Hild.

*Geography*, v. also Surv.

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 Baker, J. N. L., M.A., B.Litt. Jes.  
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Lectrs. :

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 (Climatol.).  
 Sandford, K. S., M.A., D.Phil.,  
 D.Sc. Univ. (Land Forms).  
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 Qu. (Econ. G.).  
 Gilbert, E. W., M.A., B.Litt.  
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 Sandford, K. S., M.A., D.Phil.,  
 D.Sc. Univ. (Pleistocene G.).

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[Savilian Prof.  
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*German*

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 (G. Lang. and Lit.).  
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 M.A., B.Litt. Wadh. Reader.  
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 Wadh., Ph.D. Berne. Lectr.  
 Barnes, H. G., M.A. Magd. Lectr.

*Greek, Byzantine and Modern  
 Lang. and Lit.*

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 Bywater & Sotheby Prof.

*Greek and Latin Lang. and Lit.*

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 Platnaeur, M., M.A., B.Litt. B.N.C.  
 Lectr.

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 Higham, T. F., M.A. Trin.

*Greek Lit.*

[Lectr.  
 Bowra, C. M., M.A., D.Litt. Wadh.

*Hebrew*, v. Oriental Langs.

*History, American*

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 Queen's  
 Harold Vyvyan Harmsworth  
 Prof.

*History, Ancient*, v. also Archæol.

Last, H. M., M.A. B.N.C.  
 Camden Prof.  
 Myres, J. L., M.A. New Coll.  
 Wykeham Prof.

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Syme, R., M.A. Trin.  
 Baldson, J. P. V. D., M.A. Ex.  
 Hignett, C., M.A. Hertf.

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Coupland, R., M.A. All S.  
 Harlow, V. T., M.A., D.Litt.  
 B.N.C. (British Empire)  
 Lectr.

Wheare, K. C., M.A. Ch. Ch.  
 Beit Lectr.

*History, Eccl.*, v. Theology

*History, Econ.*, v. Pol. Econ.

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 Ball. Reader.

*History, Mediæval*

Jolliffe, J. E. A., M.A. Keble  
 (Med. English) Lectr



- Procter, Evelyn E. S., M.A. St. Hugh's (Med. European) Lectr.  
 Weaver, J. R. H., M.A. Trin. (Med. Ecclesiastical) Lectr.
- History, Military*, v. Milit. H.  
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 Gough, J. W., M.A. Or.  
 McFarlane, K. B., M.A. Magd.  
 Masterman, J. C., M.A. Ch. Ch.  
 Coate, Mary, M.A. L.M.H.  
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 Costin, W. C., M.A. St. Joh.  
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 Keir, D. L., M.A. Univ. (Engl. Const.).  
 Pantin, W. A., M.A. Or. (Eccl. Instns.).
- Italian*  
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 Whitfield, J. H., M.A. Magd. Lectr.
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- Logic*  
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- Mathematics, Pure*  
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- Mathematics* [Rouse Ball Prof.  
 Milne, E. A., M.A. Wadh., F.R.S.  
 Whitehead, J. H. C., M.A. Ball. Lectr.
- Newbould, H. O., M.A. Mert. Lectr.  
 Chaundy, T. W., M.A. Ch. Ch. Lectr.
- Medicine*, v. *infra*  
*Meteorology*, v. Philosophy Expl.
- Military History*  
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 Powell, H. M., M.A., B.Sc. St. Joh. (Crystallog.).
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 Armstrong, T. H. W., M.A., D.Mus. Ch. Ch. Choragus (Asst. to Prof.).
- Numismatics* [Reader.  
 Milne, J. G., M.A., D.Litt. C.C.C.
- Oriental Languages*, v. *infra*
- Palæography* (Latin and English)  
 Denholm Young, N., M.A., B.Litt. Magd. Reader.
- Papyrology*  
 Lobel, E., M.A. Qu. Reader.  
 Bell, H. I., M.A. Or. Reader.  
 Roberts, C. H., M.A. St. Joh. Lectr.
- Philology, Comparative* [Prot.  
 Brauholtz, G. E. K., M.A. Worc.
- Philosophy*  
 Lectrs. :  
 Ross, Sir W. David, O.B.E., M.A., D.Litt. Or.

Mabbott, J. D., M.A. St. Joh.  
Hardie, W. F. R., M.A. C.C.C.

*Philosophy, Expl.*

Lindemann, F. A., M.A. Wadh.  
and Ch. Ch., F.R.S.

Dr. Lee's Prof.

Dobson, G. M. B., M.A., D.Sc.  
Linc., F.R.S.

(Meteorol.) Reader.

Keeley, T. C., M.A. Wadh.  
Demr. and Lectr.

*Philosophy, Mental*, v. also  
Logic

Brown, Wm., D.M. Ch. Ch.  
Wilde Reader.

*Philosophy, Moral*

Paton, H. J., M.A., D.Litt. C.C.C.  
White's Prof.

*Philosophy, Metaphysical*

Collingwood, R. G., M.A. Magd.  
Waynflete Prof.

*Philosophy, Natural*

Love, A. E. H., M.A., D.Sc. Qu.,  
F.R.S. Sedleian Prof.

*Physics*

Townsend, J. S. E., M.A. New  
Coll., F.R.S. Wykeham Prof.

Lectrs. and Demrs. :

Lathey, R. T., M.A., B.Sc. Trin.  
Gill, E. W. B., M.A., B.Sc. Mert.  
Keeley, T. C., M.A. Wadh.  
McCallum, S. P., M.A., D.Phil.  
New Coll.

Johnson, P., M.A. Magd.  
Dobson, G. M. B., M.A., D.Sc.  
Linc., F.R.S. (Climatol.).

*Physiology*, v. also Medicine

Mellanby, J., M.A. Camb. and  
Magd., M.D. Camb., F.R.S.  
Waynflete Prof.

Douglas, C. G., B.Sc., D.M. St. J.  
(Gen. Metabolism).  
Reader, Lectr. and Demr.

Lectrs. and Demrs. :

Carleton, H. M., M.A., B.Sc.,  
D.Phil. New Coll. (Animal  
Histol.).

Creed, R. S., D.M. New Coll.

Liddell, E. G. T., D.M. Trin.

*Poetry*

Gordon, G. S., LL.D. Glas., M.A.  
Magd. Prof.

*Political Econ.*

Macgregor, D. H., M.A. All S.  
Drummond Prof.

Clark, G. N., M.A. All S. (Econ.  
Hist.) Chichele Prof.

Lennard, R. V., M.A. Wadh. (Ec.  
Hist.) Reader.

*Political Theory and Institns*

Salter, Sir J. Arthur, K.C.B., LL.D.  
McG., M.A., D.C.L. All S., Com.

Lég. d'H. Gladstone Prof.  
Opie, R., M.A. Magd. (Econ. Sci.)  
Lectr.

Hall, R. L., M.A. Trin. (Econ. Sci.)  
Lectr.

*Portuguese Studies*

das Neves, F. J., Exe. Lectr.

*Public Administration*

Harris, G. Montagu, M.A. New  
Coll. Research Lectr.

*Public Finance*

Bretherton, R. F., M.A. Wadh.  
Research Lectr.

*Religion*, v. Theology

*Romance Lang.*

Ewert, A., M.A. Trin. Prof.

*Rural Economy*, v. *infra*

*Science, History of* [Reader.  
Gunther, R. W. T., M.A. Magd.

*Slavonic Studies*

Konovalov, S., M.A., B.Litt. Exe.  
Lectr.

*Sociology, African*

Evans-Pritchard, E. E., M.A. Exe.  
Research Lectr.

*Spanish*

Entwistle, W. J., M.A. Exe.  
King Alfonso XIII. Prof.  
Kolkhorst, G. A., M.A. Exe.  
Reader.  
Moreno, E., M.A. St. Cath.,  
L. en L. Madrid Lectr.

*Spectroscopy*

Jackson, D. A., M.A., D.Sc. Ball.  
Lectr.

*Statistics*

Marschak, J., M.A. All S.  
Reader.

*Surveying* (for Engin., Rural Ec.,  
Forestry, Geog. Students, and  
Trop. Admin. Services probrs.).

Tandy, Lt.-Col. M. O., D.S.O.,  
O.B.E., M.A. Worc. Instr.

*Theology, v. infra**Thermodynamics*

Simon, F., M.A. Ball. Reader.

*Zoology and Comp. Anat., v. also*

Rural Econ.

Goodrich, E. S., M.A., D.Sc. Mert.,  
F.R.S. Linacre Prof.

Carpenter, G. D. H., M.B.E., D.M.  
Jes. (Entomol.) Hope Prof.

Elton, C. S., M.A. C.C.C. (Animal  
Ecology)

Reader, Lectr. and Demr.

Lectrs. and Demrs. :

de Beer, G. R., M.A., D.Sc. Mert.  
(Comp. and Exper. Embryol.)

Jenkinson Lectr.

Tucker, B. W., M.A. Magd.  
Baker, J. R., M.A., D.Phil. New  
Coll.

Ford, E. B., M.A., B.Sc. Wadh.

Young, J. Z., M.A. Magd.

*Law*

*Civil* [Reg. Prof.

de Zulueta, F., D.C.L. All S.

*Criminal, and Evidence*

Stallybrass, W. T. S., O.B.E.,  
D.C.L. B.N.C. Reader.

*English*

Holdsworth, Sir W. S., K.C.,  
D.C.L. All S. Vinerian Prof.

Cheshire, G. C., M.A., D.C.L. Exe.  
All Souls Reader.

Fifoot, C. H. S., M.A. Hert. Lectr.  
Landon, P. A., M.A. Trin. Lectr.

Hart, W. O., B.C.L., M.A. Wadh.  
Lectr.

Hanbury, H. G., M.A., D.C.L.  
Linc. Lectr.

Jones, J. W., M.A. Qu. Lectr.

*Indian*

(suspended) Reader.

*Internat. and Diplomacy*

Brierly, J. L., O.B.E., D.C.L. All  
S. Chichele Prof.

*Internat. (Private)*

Foster, J. G., M.A. All S.  
All Souls Lectr.

*International Relations*

Zimmern, Sir Alfred E., M.A. New  
Coll. Montague Burton Prof.

*Jurisprudence*

[Prof.  
Goodhart, A. L., D.C.L. Univ.

*Roman*

[All Souls Reader.  
Lawson, F. H., M.A. Mert.

*Roman-Dutch*

[Rhodes Prof.  
Lee, R. W., D.C.L. All S.

**Medicine**

(for subjects of the first 2 yrs.—  
Anat., etc., v. *supra*)

*Anæsthetics*

Macintosh, R. R., M.A. Pemb.,  
M.R.C.S., L.R.C.P., F.R.C.S.  
Edin. Nuffield Prof.

*Anatomy, Morbid*

Gibson, A. G., D.M. Ch. Ch.  
Nuffield Reader.

*Bacteriology*

Gardner, A. D., D.M. Univ.  
Reader and Prof.

*Medicine*

Buzzard, Sir E. Farquhar, Bt.,  
K.C.V.O., D.M. Ch. Ch.  
Reg. Prof.  
Cooke, A. M., D.M. Jesus  
May Reader.  
Mallam, E., D.M. Magd.  
Litchfield Lectr.

*Medicine, Clinical*

Witts, L. J., M.D. Manc., F.R.C.P.  
Nuffield Prof.

*Obstetrics and Gynæcology*

Moir, J. C., M.D. Edin., M.A. Or.,  
F.R.C.S.E., F.C.O.G.  
Nuffield Prof.

*Ophthalmology*

Adams, P. E. H., M.A., B.M., Exe.  
Margaret Ogilvie's Reader

*Orthopædic Surgery*

Girdlestone, G. R., M.A., B.M.  
New Coll., F.R.C.S.  
Nuffield Prof.

*Pathology*, v. also Anat., Morbid.  
Florey, H. W., M.A., Ph.D.  
Camb., M.B., B.S. Adel.,  
M.A., B.Sc. Linc. Prof.

Lectrs. and Demrs. :

Vollum, R. L., M.A., D.Phil. Linc.  
Duthie, E. S.  
Maegraith, B. G., M.A., B.Sc.,  
D.Phil. Exe.

Robb-Smith, A. H. T., M.D. Lond.  
Demr. and Asst.  
Director of Pathol.

*Pharmacology*

Burn, J. H., M.A. Ball. Prof.  
Franklin, K. J., D.M. Or.  
Dean of Med. Sch., Demr.

*Physiology, Clinical*

Priestley, J. G., D.M. Ch. Ch.  
Reader, Lectr. and Demr.

*Surgery*

Cairns, H. W. B., M.B., B.S.  
Adel., M.A. Ball., F.R.C.S.  
Nuffield Prof.  
Rose-Innes, R. H., M.A. Or.  
Litchfield Lectr.

*Therapeutics*

Gunn, J. A., M.A. Ball.  
Nuffield Prof.

**Oriental Languages**

*Arabic*

Gibb, H. A. R., M.A. Lond., Edin.  
and St. Joh. Laudian Prof.

*Assyriology*

Thompson, R. Campbell, M.A.,  
D.Litt. Mert. Shillito Reader.

*Chinese*

Hughes, Rev. E. R., M.A. Linc. (C.  
Religion and Philos.) Reader.  
Wei-Cheng, W. (C. Philos. and  
Religion) Lectr.

*Eastern Religions and Ethics*

Radhakrishnan, Sir Sarvapalli,  
M.A. All Souls  
Spalding Prof.

*Egyptology*

Gunn, B. G., M.A. Qu. Prof.

*Hebrew*

Danby, Rev. Canon H., D.D. Ch.  
Ch. Reg. Prof.

Driver, G. R., M.A. Magd. (Semitic Phil.) Reader.  
 Raphael, C., M.A. Univ. (Post-Biblical H.) Cowley Lectr.

### *Sanskrit*

Johnston, E. H., M.A., D.Litt. Ball. Boden Prof.

### Rural Economy

Watson, J. A. S., M.A. St. Joh. Sibthorpe Prof.

Morison, C. G. T., M.A. Ch. Ch. (Soil Sci.) Reader.

Amery, G. D., M.A. B.N.C. (Economics and History) Lectr.

Lectrs. and Demrs. :

Skilbeck, D., M.A. St. Joh.

Ellis, J. C. B., M.A. Jes. (Physics & Chem.).

Cunliffe, N., M.A., D.Sc. Wadh. (Agr. Entomol.) Demr.

Departmental Lectrs. :

Cheshire, G. C., D.C.L. Exe. (Law)

Clarke, G. R., M.A., B.Sc. Or. (Chem.)

Wright, S. J., M.A. Camb. (Engin.)

Spencer, A. V., M.A. C.C.C. (Estate Management)

Orwin, C. S., M.A. Ball. (Econ.)

Upfold, S. J. (Accounts)

Tandy, M. O., M.A. Worc. (Surveying)

Veale, D., M.A., C.C.C. (Local Govt.)

Vaux, E. H., B.A. Trin. (Building Constrn.)

### *Agr. Economics*

Agr. Econ. Research Inst. :

Orwin, C. S., M.A. Ball. Director.

Bridges, A., M.A. Linc.

Deputy Director.

Research Officers :

Dixey, R. N., B.A. St. Joh. ;

Lee, J. R., M.A. ; Murray,

K. A. H., M.A., B.Litt. Or. ;

Cohen, R. L., M.A. Camb. ;

Sherrard, F. R. G. N., B.A. Camb.

### *Agr. Engineering*

Agr. Eng. Research Inst. :

Wright, S. J., M.A. Camb.

Director.

Research Officers :

Cashmore, W. H., B.A. Camb.

Blackaby, J. H., B.Sc. Lond.

Cameron-Brown, C. A., B.Sc. Edin.

### Theology

Robinson, Rev. H. W., M.A. Cath. (Biblical Criticism) Reader.

Carpenter, Rev. H. J., M.A. Keble (Hist. of Early Christian Thought) Lectr.

Mortimer, Rev. R. C., M.A. Ch. Ch. (Early Canon Law).

Lectr.

Cross, Rev. F. L., M.A., D.Phil. Ball. (Philos. of Religion)

Lectr.

Farrer, Rev. A. M., M.A. Trin. (Biblical Studies)

Speaker's Lectr.

Ratcliff, Rev. E. C., M.A. Qu. (Liturgiol.) Lectr.

### *Divinity*

Goudge, Rev. Canon H. L., D.D. Ch. Ch. Reg. Prof.

Williams, Rev. Canon N. P., D.D. Ch. Ch. Lady Margaret Prof.

### *Eccles. History*

Jenkins, Rev. Canon C., D.D. Ch. Ch., F.S.A. Reg. Prof.

### *Exegesis*

Lightfoot, Rev. R. H., M.A. New Coll. Dean Ireland's Prof.

### *Interpretation of Holy Script.*

Simpson, Rev. D. C., D.D. Or.

Oriel Prof.

*Moral and Pastoral Theology*  
Hodgson, Rev. Canon L., M.A.,  
S.T.D., D.C.L. Reg. Prof.

*Nat. and Comparative Religion*  
Cross, Rev. F. L., M.A., D.Phil.  
Ball. Wilde Lectr.

*Philos. of Christian Religion*  
Grensted, Rev. L. W., D.D. Or.  
Nolloth Prof.

*Septuagint* [Grinfield Lectr.  
Driver, G. R., M.A. Magd.

**George Eastman Visiting Prof.**  
1937-38, Simon Flexner, LL.D.,  
D.Sc., M.D., M.A. Ball.  
(Rockefeller Inst. for Medical  
Research).  
1938-39, Prof. T. Frank, Ph.D.  
Chic. (Johns Hopkins Univ.).

**Bampton Lecturer**  
(alternate years)  
1938, Rev. A. Guillaume, D.D.  
Wadh.

**Romanes Lecturer**  
1938, Rt. Hon. Viscount Cecil of  
Chelwood, M.A., D.C.L. Univ.,  
K.C.

**Ford's Lecturer in English Hist.**  
1937-38, Prof. H. W. V. Temperley,  
O.B.E., M.A., Litt.D. (Camb.  
Univ.).  
1938-39, Prof. Eileen Power, M.A.,  
D.Lit. (London Univ.).

**Herbert Spencer Lecturer**  
1938, Prof. E. Barker, M.A.,  
D.Litt.  
Subject—*Natural Law in the  
Political World.*

**Halley Lecturer**  
1938, Prof. A. O. Leuschner (Univ.  
of California).  
Subject—*The Hecuba Group of  
Minor Planets.*

**Sidney Ball Lecturer in Econ.**  
1937-38, Sir Alexander Maxwell,  
K.B.E., C.B.  
Subject—*The Treatment of  
Crime.*

**Sir Basil Zaharoff Lecturer**  
1937, Prof. L. Cazamian (Univ. of  
Paris).  
Subject—*Retour de l'infidèle  
à la poésie française.*

**Taylorian Lecturer**  
1937, Sir William Craigie, M.A.,  
D.Litt.  
Subject—*The Art of Poetry in  
Iceland.*

**Rhodes Memorial Lecturer**

.....

**Frazer Lecturer** (Social Anthrop-  
ology—in rotation with Cam-  
bridge, Glasgow, Liverpool)  
1938, Prof. J. H. Hutton, C.I.E.,  
M.A., D.Sc. (Cambridge  
Univ.).

**University Extension**  
Lecturers employed under the  
direction of the Extra-mural  
Studies Delegacy (about 30),  
*see p. 277.*

## THE COLLEGES

ALL SOULS COLLEGE. Founded 1437. Warden—W. G. S. Adams, C.H.,  
M.A., D.C.L.

Fellows:  
Oman, Sir Charles W. C., K.B.E.,  
M.A., D.C.L., LL.D., F.B.A.,  
F.S.A., *Librarian, Chichele Prof.  
of Mod. Hist.*

Robertson, Sir Charles Grant, C.V.O.,  
M.A., LL.D.  
Simon, Rt. Hon. Sir John A., G.C.S.I.,  
K.C.V.O., M.A., D.C.L., LL.D.,  
K.C., M.P.

- Dawson, G. G., M.A., D.C.L.  
 Malcolm, D. O., M.A.  
 Craster, H. H. E., M.A., D.Litt.,  
 Litt.D., *Bodley's Librarian*.  
 Pollard, A. F., M.A., D.Litt., Litt.D.,  
 F.B.A.  
 Archibald, J. G., M.A.  
 Somervell, Sir Donald B., O.B.E.,  
 M.A., K.C., M.P.  
 de Zulueta, F., D.C.L., F.B.A., *Regius*  
*Prof. of Civil Law*.  
 Woodward, E. L., M.A., *Sub-Warden*,  
*Domestic Bursar*.  
 Faber, G. C., M.A., *Estates Bursar*.  
 Coupland, R., C.I.E., M.A., *Beit Prof.*  
*of Colonial Hist.*  
 Curtis, L. G., M.A.  
 Lee, R. W., D.C.L., F.B.A., *Rhodes*  
*Prof. of Roman-Dutch Law*.  
 Macgregor, D. H., M.C., M.A.,  
*Drummond Prof. of Polit. Econ.*  
 Holdsworth, Sir William S., D.C.L.,  
 LL.D., K.C., *Vinerian Prof. of*  
*Eng. Law*.  
 Jacob, E. F., M.A., D.Phil.  
 Greene, Rt. Hon. Sir Wilfrid A.,  
 O.B.E., M.C., C.G., M.A., D.C.L.,  
 K.C.  
 Brierly, J. L., O.B.E., D.C.L., *Chichele*  
*Prof. of Internat. Law and Dip-*  
*lomacy*.  
 Headlam, Rt. Rev. A. C., C.H., D.D.  
 Swinton, Maj.-Gen. Sir Ernest D.,  
 K.B.E., C.B., D.S.O., M.A., *Dean*,  
*Chichele Prof. of Military Hist.*  
 Pares, R., M.A., *Dean*.  
 Foster, J. G., M.A., *All S. Lectr.*  
*Private Internat. Law*.  
 Rowse, A. L., M.A.  
 Rudler, G., M.A., *Foch Prof. of French*  
*Lit.*  
 Jones, A. H. M., M.A.  
 Hudson, G. F., M.A.  
 Dannreuther, D. S., M.A.  
 Sparrow, J. H. A., M.A.  
 Rickett, D. H. F., M.A.  
 Jay, D. P. T., M.A.  
 Bowen, I. I., M.A.  
 Clark, G. N., M.A., F.B.A., *Chichele*  
*Prof. of Econ. Hist.*  
 Hogg, Hon. Q. McG., M.A.  
 Rees, M. G., B.A.  
 Wilberforce, R. O., M.A.  
 Berlin, I., M.A.  
 Reilly, D'A. P., B.A.  
 Salter, Sir J. Arthur, K.C.B., M.A.,  
 D.C.L., LL.D., M.P., *Gladstone*  
*Prof. of Polit. Theory and Instns.*  
 Henderson, H. D., M.A.  
 Latham, R. T. E., B.A.  
 Hill, J. E. C., B.A.  
 O'Neill, C. D. W., B.A.  
 Plamenatz, J. P., M.A.  
 Campbell, A. H., M.A., B.C.L.  
 Macartney, C. A., M.A.  
 Routh, D. A., B.A.  
 Hampshire, S. N., B.A.  
 Dunbabin, T. J., M.A.  
 Radcliffe-Brown, A. R., M.A., *Prof. of*  
*Social Anthropol.*  
 Brown, A. J., B.A.  
 Cox, A. D. M., B.A.

BALLIOL COLLEGE. Founded 1263-1268. *Master*—A. D. Lindsay, C.B.E.,  
 M.A., LL.D. (Vice-Chancellor of the Univ.).

#### Fellows :

- Hartley, Sir Harold B., C.B.E., M.C.,  
 D.Sc. Sheff., M.A., F.R.S., *Sr.*  
*Research Fellow*.  
 Bailey, C., M.B.E., D.Litt. Durh. and  
 Ox., LL.D. Calif. and Glas., M.A.,  
 F.B.A., *Jowett Lectr., Tutor*  
*(Classics)*.  
 Bell, K. N., M.C., M.A., *Tutor (Mod.*  
*Hist.), Dean of Degrees*.  
 Macgregor, D. C., M.A., *Tutor*  
*(Classics)*.  
 Ridley, Rev. M. R., M.A., *Tutor*  
*Engl. Lit.), and for Admissions*.  
 Morris, C. R., M.A. *Tutor (Classics)*,  
*Jowett Lectr. (Philos.)*.  
 Orwin, C. S., M.A., *Estates Bursar*.  
 Rodger, A. B., M.A., *Tutor (Econ.)*,  
*Dean*.  
 Sumner, B. H., M.A., *Tutor (Mod.*  
*Hist.), U. Lectr. (E. Europ. Hist.)*.  
 Gunn, J. A., D.Sc., M.D. Edin., M.A.,  
 F.R.C.P., *Nuffield Prof. of Thera-*  
*peutics*.  
 Mynors, R. A. B., M.A., *Tutor*  
*(Classics), U. Lectr. (Gk. and*  
*Latin Lang. and Lit.), Librarian*.  
 Fulton, J. S., M.A., *Tutor (Classics)*.

- Duke, A. C. H., C.M.G., D.S.O., M.A., *Home Bursar*.  
 Tylor, T. H., M.A., B.C.L., *Tutor (Jurispr.)*.  
 Allan, D. J., M.A., *Tutor (Classics)*.  
 Allen, W. M., B.Sc. Lond., M.A., *Tutor (Econ.)*.  
 Pym, Rev. Canon T. W., D.S.O., M.A., *Chaplain*.  
 Bell, R. P., M.A., *Tutor (Nat. Sci.)*, *Bedford Lectr. (Phys. Chem.)*.  
 Whitehead, J. H. C., M.A., *Tutor, U. Lectr. (Maths.)*.  
 Philpot, J. St. L., M.A., B.Sc., *Senr. Research Fellow*.  
 Cairns, H. W. B., M.B., B.S. Adel., M.A., F.R.C.S., *Nuffield Prof. of Surg.*  
 Johnston, E. H., M.A., D.Litt., *Boden Prof. of Sanskrit*.  
 Burn, J. H., M.D. Camb., M.A., *Prof. of Pharmacol.*  
 Southern, R. W., M.A., *Tutor (Mod. Hist.)*.  
 Flexner, S., LL.D., D.Sc., M.D., M.A., *George Eastman Visiting Prof.*  
 Hoey, A. S., B.A., *Junr. Research Fellow*.  
 Other Tutors and Lecturers :  
 Bryson, J. N., M.A. Mert., *Tutor (Engl. Lit.)*.  
 Ogston, A. G., B.A., D.Phil., *Tutor (Biolog. Sciences)*.  
 King, F. E., M.A., D.Phil., *Lectr. (Org. Chem.)*, *U. Lectr. and Demr. (Chem.)*.  
 Lidwell, O. M., B.A., *Demr. (Phys. Chem.)*.

BRASENOSE COLLEGE. Founded 1509. Principal—W. T. S. Stallybrass, O.B.E., D.C.L., Reader in Criminal Law and Law of Evidence.

Fellows :

- Stocker, W. N., M.A., *Lectr.*  
 Holroyd, M., M.A., F.S.A., *Senr. Tutor, Senr. Dean*.  
 Griffith, I. O., A.F.C., M.A., *Tutor, Librarian*.  
 Taylor, T. W. J., M.A., *Tutor, U. Demr. and Lectr. (Chem.)*.  
 Platnauer, M., M.A., B.Litt., *Vice-Principal, Tutor, U. Lectr. (Gk. and Latin Lang. and Lit.)*.  
 Spalding, K. J., M.A., *Lectr. (Philos.)*, *Senr. Research Fellow*.  
 McKie, J. I., M.A., *Tutor*.  
 Southwell, R. V., M.A., F.R.S., *Prof. (Engineering Science)*.  
 Waldock, C. H. M., B.C.L., M.A., *Tutor*.  
 Grant, A. D., M.A., *Bursar*.  
 Ker, A., M.A., *Lectr.*  
 Cohn, E. S., M.A., *Lectr.*

- Owen, Rev. R. H., M.A., *Chaplain, Tutor*.  
 Collieu, E. G., M.A., *Lectr. and Junr. Dean*.  
 Last, H. M., M.A., *Camden Prof. of Anc. Hist.*  
 Chakravarty, A. C., D.Phil., *Senr. Research Fellow*.  
 Baké, A. A., D.Litt. Utrecht, *Senr. Research Fellow*.

Other Lecturers :

- Brett-Smith, H. F. B., M.A. (*Engl. Lit.*), *Reader (Engl. Lit.)*.  
 Amery, G. D., M.C., M.A. (*Agric.*), *U. Lectr. (Hist. and Econ. of Agric.)*.  
 Bowen, I. I., M.A. All S. (*Econ.*).  
 Belfield, V., M.A., *and U. Lectr. and Demr. (Eng. Sci.)*.  
 Narishkin, V., M.A. (*French*).  
 Maxse, R. E. B., B.Litt. (*German*).

CHRIST CHURCH. Founded 1546. Dean—Very Rev. A. T. P. Williams, D.D.

Canons :

- Goudge, Rev. H. L., D.D., *Sub-Dean, Regius Prof. of Divinity*.  
 Williams, Rev. N. P., D.D., *Lady Margaret Prof. of Divinity*.  
 Kirk, Rev. K. E., D.D., *Regius Prof. of Moral and Pastoral Theol.*  
 Jenkins, Rev. Canon C., D.D., F.S.A., *Regius Prof. of Eccles. Hist.*



Danby, Rev. H., D.D., *Regius Prof. of Hebrew*.  
 Allen, Rt. Rev. G. B., D.D., *Arch-deacon of Oxford*  
 Hodgson, Rev. Canon L., M.A., S.T.D., D.C.L., *Regius Prof. of Moral and Pastoral Theol.*

Students (equivalent to Fellows) :

Payne-Smith, Rev. W. H., M.A.  
 Dundas, R. H., M.A., *Tutor*.  
 Hutchinson, G. T., M.C., M.A., *Treasurer*.  
 Chaundy, T. W., M.A., *Tutor, U. Lectr. (Maths.)*.  
 Feiling, K. G., O.B.E., M.A., D.Litt., *Research Student*.  
 Masterman, J. C., M.A., *Tutor, U. Lectr. (Mod. Hist.)*.  
 Russell, A. S., M.C., D.Sc. Glas., M.A., *Tutor, Dr. Lee's Reader in Chem., U. Lectr. (Chem.)*.  
 Heaton, T. B., O.B.E., D.M., M.R.C.P., *Tutor, Dr. Lee's Reader in Anat.*  
 Lindemann, F. A., Ph.D. Berl., M.A., F.R.S., *Dr. Lee's Prof. of Exp. Philos.*  
 Taylor, F. A., M.A., *Tutor*.  
 Harrod, H. R. F., M.A., *Tutor*.  
 Barrington-Ward, J. G., M.A., *Tutor, Librarian*.  
 Ryle, G., M.A., *Tutor*.  
 Morison, C. G. T., M.A., *Tutor, U. Reader (Soil Sci.)*.

CORPUS CHRISTI COLLEGE. Founded 1517. President—Sir Richard W. Livingstone, D.Litt. Belf., Durh., and Tor., LL.D. St. And., M.A.

Fellows :

Phelps, W., M.A., *Senr. Tutor*.  
 Pidduck, F. B., M.A., D.Sc., *Tutor*.  
 Hardie, W. F. R., M.A., *Tutor, U. Lectr. (Philos.)*.  
 Geary, F. C., M.A., *Dean and Tutor*.  
 Veale, D., C.B.E., M.A., *U. Registrar*.  
 Sawyer, Rev. H. A. P., M.A., *Chaplain, Divinity Lectr.*  
 Brogan, D. W., M.A. Glas. and Ox., *Tutor*.  
 Fraenkel, E. D. M., D.Phil. Göttingen, M.A., *Corpus Prof. of Latin, Vice-President*.

Buzzard, Sir E. F., Bt., K.C.V.O., LL.D. Manlt., D.M., F.R.C.P., *Regius Prof. of Medicine*.  
 Myres, J. N. L., M.A., *Tutor, U. Lectr. (Mod. Hist.)*.  
 Percival, Col. Sir H. F. P., K.C.M.G., C.B.E., D.S.O., M.A., *Steward*.  
 Grant-Bailey, S. N., M.A. Ox. and Camb., LL.M. Camb., *Tutor*.  
 Mortimer, Rev. R. C., M.A., *Tutor, U. Lectr. (Early Canon Law)*.  
 Foster, M. B., Ph.D. Kiel, M.A., *Censor and Tutor*.  
 Collie, C. H., B.Sc., M.A., *Tutor, Dr. Lee's Reader in Phys., Research Student*.  
 Gordon-Walker, P. C., M.A., B.Litt., *Tutor*.  
 Page, D. L., M.A., *Censor and Tutor, U. Lectr. (Gk. and Latin Lit.)*.  
 Pakenham, Hon. F. A., M.A., *Tutor*.  
 Ayer, A. J., M.A., *Research Student*.  
 Roaf, D., M.A., D.Phil., *Research Student*.  
 Dodds, E. R., M.A., *Regius Prof. of Greek*.  
 Dillwyn, C. L., B.A., *Tutor*.

Lecturers :

Wheare, K. C., M.A., *Beit Lectr. (Colonial Hist.)*.  
 Armstrong, T. H. W., M.A., D.Mus.  
 Moy-Thomas, J. A., M.A.  
 Whitrow, G. J., M.A.  
 MacLagan, M., B.A.

Elton, C. S., M.A., *Senr. Research Fellow, Reader (Animal Ecol.)*, U. Demr. (Zool. and Compar. Anat.).  
 Ensor, R. C. K., M.A.  
 Beaumont, R. L., B.A.  
 Paton, H. J., M.A., D.Litt.  
 Beloff, M., B.A., B.Litt., *Jnr. Research Fellow*.

Other Lecturers :

Hammick, D. Ll., M.A. Oriel (Nat. Sc.), U. Demr. and Lectr. (Chem.).  
 Tylor, T. H., M.A., B.C.L. Ball. (Jurisprud.).  
 Sayers, R. S., M.A. Camb. and Ox. (Econ.).

EXETER COLLEGE. Founded 1314. Rector—R. R. Marret, LL.D. St. And., M.A., D.Litt., D.Sc., F.B.A.

Fellows :

- Atkinson, C. T., M.A. *Lectr. (Mod. Hist.)*.  
 Cheshire, G. C., M.A., D.C.L., *Lectr. (Law), All Souls Reader (English Law)*.  
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Hight, G. A., M.A., *Tutor, Lectr.*  
(*Classics*).  
Moore, W. G., D.Litt. Strasb., M.A.,  
*Tutor, Lectr.* (*Mod. Langs.*), *U.*  
*Lectr.* (*French*).  
Roberts, C. H., M.A., *Snr. Research*  
*Fellow, U. Lectr.* (*Papyrol.*).  
Sherwin-White, A. N., M.A., *Lectr.*  
(*Anc. Hist.*).

Gibb, H. A. R., M.A. Edin., Lond.,  
Ox., *Laudian Prof. of Arabic*.

Other Lecturers :

Newbould, H. O., M.A. Mert. (*Maths.*).  
Dowdell, E. G., M.A., D.Phil. (*Econ.*).  
Skilbeck, D., M.A., *Lectr., U. Lectr.*  
*and Demr.* (*Rural Econ.*).  
Balfour, M. L. G., M.A. (*Politics*).  
Le Mare, D. W., B.A. (*Compar. Anat.*).

TRINITY COLLEGE. Founded 1554-1555. President—Rev. H. E. D. Blakiston, D.D.

Fellows :

Patterson, Rev. M. W., M.A., *Tutor,*  
*Lectr.* (*Mod. Hist.*), *Vice-President*.  
Weaver, J. R. H., M.A., *Tutor, Lectr.*  
(*Mod. Hist.*), *Librarian*.  
Higham, T. F., M.A., *Tutor, Lectr.*  
(*Classics*), *U. Lectr.* (*Gk. and Lat*  
*Lit.*).  
Landon, P. A., M.C., M.A., *Lectr.*  
(*Jurispr.*), *Jnr. Bursar, U. Lectr.*  
(*Law*).  
Liddell, E. G. T., D.M., *Research*  
*Fellow and U. Lectr. and Demr.*  
(*Physiol.*).

Peters, R. A., M.C., M.A., F.R.S.,  
*Whitley Prof. of Biochem.*  
Hall, R. L., M.A., *Lectr.* (*Econ.*), *Sr.*  
*Dean, U. Lectr.* (*Econ. Sci.*).  
Syme, R., M.A., *Lectr. and U. Lectr.*  
(*Anc. Hist.*), *Jr. Dean*.  
Ewert, A., M.A., *Prof. of Romance*  
*Langs.*  
McWatters, Sir Arthur C., C.I.E.,  
M.A., *Secy. to Curators, Univ.*  
*Chest*.  
Wernham, R. B., M.A., *Lectr.* (*Mod.*  
*Hist.*).  
Farrer, Rev. A. M., M.A., *Chaplain*  
*and Lectr.*

UNIVERSITY COLLEGE. Founded 1249. Master—Sir William H. Beveridge, K.C.B., LL.D. Aberd. and Chic., D.Sc. (*Econ.*) Lond., D. de l'U. Paris, M.A., B.C.L., F.B.A.

Fellows :

\*Farquharson, A. S. L., C.B.E., M.A.,  
O.Lég. d'H., O.A., *Tutor (Logic),*  
*Dean of Degrees, Registrar*.  
\*Carritt, E. F., M.A. (*Philos.*)  
*Librarian*.  
\*Walker, E. W. A., D.M., D.Sc.,  
*Tutor (Nat. Philos.)*.  
\*Stevenson, G. H., M.A., *Senr. Tutor*  
(*Anc. Hist.*).  
Leys, K. K. M., M.A., *Tutor (Mod.*  
*Hist.)*.  
\*Keir, D. L., M.A. (*Mod. Hist.*), *U.*  
*Lectr.* (*Engl. Const. Hist.*), *Estates*  
*Bursar*.

\*Bowen, E. J., M.A., F.R.S., *U. Demr.*  
(*Chem.*).  
Cole, G. D. H., M.A., *Lectr., U. Reader*  
(*Econ.*).  
Gardner, A. D., D.M., M.A.  
\*Maud, J. P. R., M.A. (*Politics*), *Dean*.  
Goodhart, A. L., M.A., LL.D. Camb.,  
D.C.L., O.A., *Prof. of Jurispr.*  
\*Wild, Rev. J. H. S., M.A., *Chaplain*  
(*Theol.*), *Domestic Bursar, Jnr.*  
*Dean*.  
\*Wells, A. F., M.A. (*Classics*).  
\*Holdsworth, R. W. G., M.A.  
(*Jurispr.*).



Douglas, J. A., M.A., D.Sc., *Prof. of Geol.*

Lady Wallis Budge Fellow in Egyptology :

Dakin, A. N., B.A.

Radcliffe Travelling Fellows :

Meiklejohn, A. P., B.Sc., B.M., M.A. Or.

Sinclair, H. M., B.Sc., B.M., M.A.

Other Lecturers and Asst. Lectrs. :

Morison, C. G. T., M.A. Ch. Ch. (*Rural Ec.*), *U. Reader (Soil Sci.)*.

Lewis, C. S., M.A. Magd. (*Engl. Lit.*), *U. Lectr. (English)*.

Chalk, L., M.A., D.Phil., *U. Demr. (Forestry)*.

Wilkins, W. H., M.A., D.Phil., *U. Lectr. and Demr. (Bot.)*.

Boyd, J., M.A., B.Litt. *U. Reader (German)*.

Ford, E. B., M.A., B.Sc. (*Zool.*), *U. Lectr. and Demr. (Zool. and Comp. Anat.)*.

Sandford, K. S., M.A., D.Phil., D.Sc. (*Geog. and Geol.*), *U. Lectr. and Demr. (Geol.)*.

Macdonald, I., B.A. (*French*).

Thompson, J. H. C., M.A., D.Phil. Wadh. (*Maths.*).

WADHAM COLLEGE. Founded 1610. M.A.

Fellows :

Wade-Gery, H. T., M.C., M.A., *Sub-Warden, Tutor (Classics)*.

Lindemann, F. A., Ph.D. Berl., M.A., F.R.S., *Prof. of Exp. Philos.*

Lennard, R. V., M.A., *Tutor (Hist.)*, *U. Reader (Econ. Hist.)*.

Bowra, C. M., M.A., D.Litt., Sr. *Tutor, U. Lectr. (Gk. Lit.)*.

Keeley, T. C., M.A., *Tutor, U. Lectr. and Demr. (Physics)*.

Hart, W. O., B.C.L., M.A., *Tutor, U. Lectr. (Law), Bursar*.

Warden—J. F. Stenning, C.B., C.B.E.,

Bretherton, R. F., M.A., *Lectr. (Econ. and Mod. Hist.)*, *Librarian, U. Research Lectr. (Pub. Finance)*.

Milne, E. A., M.B.E., M.Sc. Manc., D.Sc. Amsterdam, M.A., F.R.S., *Rouse Ball Prof. of Maths.*

Gallie, I., M.A., *Lectr. (Philos.)*, *Dean*.

Deakin, F. W. D., *Lectr. (Mod. Hist.)*.

Thompson, J. H. C., M.A., D.Phil., *Lectr. (Maths.)*.

Other Lecturer :

Berthon, H. E., M.V.O., O.A., M.A. (*French*).

WORCESTER COLLEGE. Founded 1714. Provost—Rev. F. J. Lys, M.A., D.C.L.

Fellows :

Roberts, P. E., M.A., *Vice-Provost, Tutor, Lectr. (Mod. Hist.)*.

Wilkinson, C. H., M.C., C.G., M.A., *Dean, Lectr. (Engl. Lit.)*, *Librarian*.

Pickard-Cambridge, W. A., M.A., *Tutor, Lectr. (Classics)*.

Somerser, H. V. F., M.A., *Asst. Tutor, Lectr. (Mod. Hist.)*.

Bryan-Brown, A. N., M.A., *Asst. Tutor, Lectr. (Classics)*.

Braunholtz, G. E. K., M.A., *Prof. o Compar. Philol.*

Parker, J. L., M.A., *Supernumerary*. Milburn, Rev. R. L. P., M.A. Camb. and Ox., *Jnr. Bursar, Chaplain, Lectr. (Theol.)*.

Brown, A. B., B.C.L., *Lectr. (Law)*.

Other Lecturer :

Dowdell, E. G., M.A., D.Phil. Joh. (*Econ.*).

Laycock Student of Egyptology : Macadam, F. L., B.A., D.Phil.

ST. EDMUND HALL. Founded c. 1238. Principal—A. B. Emden, M.A.

Tutors :

Kelly, Rev. J. N. D., M.A., *Vice-Principal, Tutor (Theol. and Philos.)*.

Brewis, G. R., M.A., *Senior Tutor*.

Fletcher, Rev. R. F. W., M.A., *Tutor (Engl. Lang. and Lit.)*.

Hunt, H. J., M.A., D.Phil., *Tutor (French), U. Lectr. (French Hist.)*.

Irving, H. M. N. H., M.A., D.Phil. *Tutor (Nat. Sci.)*.

Ramsay, G. D., B.A., *Tutor (Mod. Hist.)*.

Lecturers :

Tylor, T. H., M.A., B.C.L. Ball. *(Jurispr.)*.

Highet, G. A., M.A. Joh. *(Classics)*.

Leach, E. H., M.A., B.Sc. *(Med.)*.

KEBLE COLLEGE. Founded 1870. Warden—Rev. B. J. Kidd, D.D.

Fellows :

Jolliffe, J. E. A., M.A., *Sub-Warden, U. Lectr. (Med. Engl. Hist.)*.

Milman, Lt.-Col. O. R. E., R.A., D.S.O., M.A., *Bursar*.

Rice-Oxley, L., M.A., *Librarian*.

Parkes, G. D., B.Sc., M.A., D.Phil.

Hugh-Jones, E. M., M.A., *Dean of Degrees*.

Carpenter, Rev. H. J., M.A., *Pringle Stuart Lectr.*

Meiggs, R., M.A., *Dean*.

Davidge, C. V., B.C.L., M.A.

Dickens, A. G., M.A.

MacKinnon, D. M., B.A.

Chaplain :

Blockley, Rev. T. T., M.A.

ST. CATHERINE'S SOCIETY (*Non-Collegiate Students*). Censor—Rev. V. J. K. Brook, M.A. Address—74 High Street.

Tutors and Lecturers :

Kendrew, W. G., M.A. *(Classics)*, *Dean*.

Barber, E. A., M.A. Exe. *(Classics)*.

Boyd, J., M.A., B.Litt. *(German)*.

Brook, Rev. V. J. K., M.A. *(Theol.)*.

Davies, Rev. R. T., M.A. *(Mod. Hist.)*, *Dean of Degrees*.

Fisher, R. B., M.A., B.Sc. Joh. *(Physiol.)*.

Garabedian, D., M.A. *(French)*.

Brewer, F. M., M.A., B.Sc. Linc. *(Chem.)*.

Horwood, F. C., M.A. *(English)*.

Hugh-Jones, E. M., M.A. Keble *(Econ.)*.

Tylor, T. H., M.A., B.C.L. Ball. *(Law)*.

### *Permanent Private Halls*

CAMPION HALL. (For members of the Society of Jesus.) Master—Rev. M. C. D'Arcy, M.A.

Walker, Rev. L. J., M.A., *Bursar, Lectr. (Philos.)*.

Lecturers and Tutors :

Burrows, Rev. E., M.A.

O'Hea, Rev. L., M.A.

Rogers, Rev. J. F.

ST. BENET'S HALL. (For members of the English Benedictine Abbey of Ampleforth, Yorkshire.) Master—Very Rev. P. J. McCann, M.A.

ST. PETER'S HALL. (For members of the Church of England.) Master—Rev. C. M. Chavasse, O.B.E., M.C., C.G., M.A.

Houghton, Rev. R. E. C., M.A., *Snr. Tutor*, *Stather-Hunt Tutor* (*Engl. Lit.*).

Smith, E. H. F., M.A., *Tutor* (*Hist.*).

Sutton, C. W. H., M.A., *Tutor* (*Philos.*).

Wilkins, W. H., M.A., D.Phil., *Tutor* (*Nat. Sci.*), *U. Lectr. and Demr.* (*Bot.*).

Tinne, C. E., M.A., *Bursar*.

Broadbent, Rev. J. D., B.A., *Chaplain*.

Lecturers :

Chaundy, T. W., M.A., and *U. Lectr.* (*Maths.*).

Fifoot, C. H. S., M.A. (*Jurispr.*), *U. Lectr.* (*Law*).

Greenslade, Rev. S. L., M.A. *Joh.* (*Theol.*).

Maidment, K. J., M.A. *Jes.* (*Classics*).

Bostock, J. K., Ph.D. Lond., M.A., B.Litt., and *U. Lectr.* (*German*).

Macdonald, I., B.A., *Dean*, (*French*).

### *Recognized Societies of Women Students*

LADY MARGARET HALL, founded in 1878 and opened in 1879; constituted under a Deed of Trust in 1893, incorporated by Royal Charter, 1926. Principal—Lynda Grier, M.A.

Tutors :

Grier, Lynda, M.A., *Principal* (*Econ.*).

\*Deneke, Helena C., M.A. (*German*).

\*Skipworth, Margaret G., M.A., *Vice-Principal* (*French*).

\*Coate, Mary, M.A., and *U. Lectr.* (*Hist.*).

\*Everett, Dorothy, M.A. Lond. and Ox. (*Engl. Lang. and Lit.*), and *U. Lectr.* (*Middle Engl.*).

\*Dale, A. Marjorie, M.A. (*Classics*), *U. Lectr.* (*Gk. and Lat. Lit.*).

\*Clarke, D. Rhoda, M.A. (*French Philol.*).

\*Lea, Kathleen M., M.A. (*English*).

Hurst, Martha, M.A. (*Philos.*).

Hurnard, Naomi D., M.A., D.Phil. (*Mod. Hist.*).

Orr Ewing, Jean, M.A., B.M. (*Nat. Sci.*).

\*Anson, Christine, M.A., *Hall Secretary and Librarian*.

Ewart, Annette M., *Domestic Bursar*.

Lecturers :

Wrinch, Mrs. Dorothy M., D.Sc. Lond. and Ox., M.A., F.R.A.S. (*Maths.*).

Blochmann, Elisabeth, Ph.D. Göttingen (*German*).

Research Fellows :

Lodge, Olive, M.A. (Susette Taylor).

Leubuscher, Charlotte, D.Phil. Berlin.

SOMERVILLE COLLEGE, founded as Somerville Hall in 1879. Principal—Helen Darbishire, M.A.

\*Stonedale, M. Beatrice, *Vice-Principal*, *Domestic Bursar*.

Tutors :

\*Lorimer, Hilda L., M.A. (*Classical Archæol.*).

\*Farnell, Vera, M.A. (*Mod. Langs.*), *Dean*.

\*Sutherland, Lucy S., M.A. (*Econ. Hist. and Politics*).

\*Lascelles, Mary M., M.A., B.Litt. (*Engl. Lang. and Lit.*).

\*Henderson, M. Isobel, Mrs., M.A. (*Anc. Hist.*).

\*Starkie, Enid M., D. de l'U. Paris, M.A. (*Mod. Langs.*), *U. Lectr.* (*French*).

\*Hartley, Mildred, M.A. Camb. and Ox. (*Classics*).

\* Official Fellow.

\*Crowfoot, Dorothy M., M.A., B.Sc.  
(*Nat. Science*).

\*McKisack, May, M.A., B.Litt. (*Mod. Hist.*).

Hon. Lecturer:

Bruce, Hon. Alice M., M.A. (*Med. French Hist.*).

Other Lecturer:

Blomfield, Joan E., B.A., B.Litt.  
(*Engl. Lang.*).

Research Fellows:

Lorimer, Hilda L., M.A. (Lady Carlisle).

Murray, Katharine M. E., B.A., B.Litt. (*Mary Somerville*).

\*Beauchamp, Agneta, O.B.E., M.A.,  
*Treasurer and Secretary*.

\*Evans, Evangeline, M.A., B.Litt.,  
*Librarian*.

ST. HUGH'S COLLEGE, founded as St. Hugh's Hall in 1886, was incorporated under Royal Charter in 1926. Principal—Barbara E. Gwyer, M.A.

Tutors:

\*Francis, Elizabeth A., M.A. Lond. and Ox. (*French*).

\*Seaton, Mary E., M.A. Lond. and Ox. (*Engl. Lit.*).

\*Proctor, Evelyn E. S., M.A. (*Hist.*),  
*U. Lectr. (Med. Europ. Hist.)*.

\*Glover, Mary R., M.A. (*Philos.*).

\*Clarke, Mrs. D. E. Martin, M.A.  
Camb. and Ox., *Vice-Principal*  
(*Engl. Lang.*).

\*Headlam-Morley, Agnes, M.A.,  
B.Litt. (*Politics and Econ.*).

\*Gray, Dorothea H. F., M.A. (*Classics*).

\*Bickley, Olga D., D. in Litt. Genoa,  
M.A., *Lectr. (Italian)*.

Adam, Madge G., B.A., *Asst. Tutor*  
(*Sci.*).

Wrinch, Mrs. Dorothy M., D.Sc. Lond.  
and Ox., M.A., F.R.A.S., *Lectr.*  
(*Maths.*).

Research Fellows:

Ady, Cecilia M., M.A.

Perham, Margery F., M.A.

\*Thorneycroft, Gertrude, B.A. Birm.,  
M.A., *Bursar*.

ST. HILDA'S COLLEGE, founded in 1893 by Miss Dorothea Beale, sometime Principal of Cheltenham Ladies' Coll. Principal—Julia de L. Mann, M.A.

Tutors:

\*Rooke, Eleanor W., M.A. *Vice-Principal* (*Engl. Lit.*).

\*Keith, Christina, M.A. Camb., Edin.,  
Ox. (*Classics*).

\*Leys, Agnes M., Mrs., M.A. Manc.  
and Ox. (*Mod. Hist.*).

\*Chesney, Kathleen, M.A., D.Phil.  
(*French*).

\*Whitlock, Dorothy, M.A. Camb. and  
Ox. (*Engl. Lang.*).

Lecturers:

Wrinch, Mrs. Dorothy M., D.Sc.  
Lond. and Ox., M.A., F.R.A.S.  
(*Maths.*).

Toynbee, Margaret R., M.A. (*Mod. Hist.*).

Cattle, Margaret, M.A., D.Phil. (*Nat. Sci.*).

Langhorne, Elizabeth, B.A. (*Mod. Hist. and Politics*).

Watling, Mary I., M.A. (*French*).

Research Fellow:

Major, Kathleen, M.A., B.Litt.

\*Milroy, Lucy, Mrs., B.A. Lond.,  
*Bursar*.

MacDonald, Margaret, M.A., Ph.D.  
Lond.

\* Official Fellow.

SOCIETY OF OXFORD HOME-STUDENTS, founded in 1879. The Governing Body is the Univ. Delegacy of Home-Students. *Principal*—Grace E. Hadow, M.A., 1 Jowett Walk, Oxford.

#### Tutors :

Butler, Christina V., M.A. (*Economics*).  
Butler, Ruth F., M.A., *Vice-Principal*,  
*Dean of Degrees*, Sr. Tutor (*Mod. Hist.*).  
Hugon, Marianne C. G., M.A. (*French*).  
Leys, Mary D. R., M.A. (*Mod. Hist.*).  
Morrison, Christine L., M.A. (*English*).  
Orr-Ewing, Jean, B.M., M.A. (*Nat. Sci.*).

Poole, Dorothy J. L., M.A. (*Classics*).  
Williams, Ivy, D.C.L. (*Jurispr.*).

#### Lecturers :

Deneke, Helena C., M.A. (*German*).  
Huntington, Alice M., M.A. (*Italian*).  
Rhys, Olwen, M.A. (*Old French*).  
Wrinch, Mrs. Dorothy M., D.Sc  
Lond. and Ox., M.A., F.R.A.S  
(*Maths.*).

The students keep statutable residence under conditions approved for them by the Delegates of Lodgings. They may reside in their own homes or in houses or Hostels approved for them. There are two Hostels maintained by Religious Orders: S. Frideswide's, Cherwell Edge (Roman Catholic) and Springfield S. Mary (Anglican). Students over 25 yrs. of age are permitted to live in lodgings.

## GENERAL INFORMATION

CONSTITUTION. The *Congregation of the University* consists mainly of the teaching and administrative elements in the Univ. and Colleges. It is the principal legislative body in the Univ. and, subject to the postponing power of Convocation explained below, can adopt, reject, or amend legislative proposals submitted by the Hebdomadal Council. *Convocation*, a larger body consisting of all Masters of Arts and Doctors of the Faculties of Divinity, Civil Law, and Medicine, who have their names on the Univ. books, has the power of postponing, but not of rejecting or amending, Statutes or Decrees which have been passed by the vote of less than two-thirds of the members of Congregation present and voting. It also confers honorary degrees and degrees granted by Decree or Diploma. It sanctions petitions to Parliament, and authorises the affixing of the Univ. seal when necessary. The *Hebdomadal Council* consists of the Chancellor, Vice-Chancellor, immediate ex-Vice-Chancellor (for a certain period after the expiry of his term of office), the Proctors, and 18 members elected by Congregation. It takes the initiative in all legislation of the Univ. and forms the central administrative body. Other important bodies, endowed with considerable powers and responsibilities, are the *General Board of the Faculties* and the *Curators of the University Chest*.

The Chancellor, elected for life by Convocation, is a non-resident Officer. The executive power is chiefly in the hands of his Deputy, the Vice-Chancellor, who is annually nominated by him from among the Heads of Colleges, and the Proctors annually elected by the Colleges and Halls in rotation.

The Colleges are corporate bodies distinct from the Univ. They manage their own property, and elect their own officers; and the Proctors have no power within their walls. Their Statutes, however, render them subject to certain Univ. Statutes which deal, among other things, with reservation of a proportion of Fellowships for Univ. teachers and officers, the assignment of Fellowships to University Professorships, the admission of undergraduates, contributions for Univ. purposes, the presentation and audit of accounts, and the special examination of catering accounts. The relation between the Univ. and the Colleges is intimate. The great majority of the members of the Univ.

belong to the Colleges, and all who belong to the various Colleges are at the same time members of the Univ. Teaching is given partly by Univ. Profs., Readers, Lecturers, and Demonstrators, partly by the more numerous body of College Tutors and Lectrs.

Entrance scholarships (£100) and exhibitions (£40-£80) are awarded by the various Colleges. Their actual value, in the larger majority of cases, is £30 a year (or its equivalent) but a scholar or exhibitioner, after election, may be granted an additional sum not exceeding the advertised maximum of his award if he supplies satisfactory evidence that he is in need of further assistance.

Under the Universities of Oxford and Cambridge Act, 1923, which set up a Statutory Commission for Oxford, new Statutes were made for the University and for the Colleges. These Statutes were laid before Parliament and received the approval of the King in Council. A summary of the most noteworthy changes embodied in them, prepared by Sir Henry Sharp, K.C.I.E., the Secretary to the Commission, will be found in the *Yearbook* for 1929, pp. 221 and 222.

**FACULTIES.** Theol., Law, Med., Literæ Humaniores, Mod. Hist., Engl. Lang. and Lit., Med. and Mod. Langs., Oriental Studies, Phys. Sciences (including Maths.), Biol. Sciences, Social Studies. There are Boards of Studies for Music and Geography.

**ADMISSION.** See App. I.

**NON-MEMBERS OF THE UNIVERSITY** may obtain permission to attend lectures given by Professors and University Readers, and University Lecturers in English Language and Literature, on payment of a fee of £3 a term at the office of the University Chest, Clarendon Building, Broad Street.

They may attend lectures and classes in Mod. Foreign Langs. on payment of fees varying from 10s. to 15s. per Term for one hour a week. Application should be made to the Clerk to the Curators, Taylor Institution.

**THE ADVISER OF OVERSEAS STUDENTS** (H. S. Williamson, M.A. Ch.Ch., Indian Institute) will advise applicants from the Dominions and Colonies and foreign countries (other than Rhodes Scholars).

The Secretary to the Delegacy for Oriental Students (H. S. Williamson, M.A., Indian Institute) will advise Indian and other Oriental Students, who should apply for admission through him, but they are recommended to consult the Secy. of the Advisory Committee of their own Province in the first instance. See also p. 680.

**INCORPORATION.** Members of the Univs. of Cambridge and Dublin can be, under certain conditions, "incorporated" into this Univ., *i.e.*, admitted to the status and degree held in their own Univ. Notice of intention to incorporate as an undergraduate must be sent to the Registrar through the Head of a Coll., Hall, or Society. The privileges of incorporation as a graduate are limited to B.A., M.A., Litt.D., B.D., D.D., and D.Sc. of those Univs., LL.B., LL.D., M.B., M.D., M.Chir., Ph.D. of Cambridge. Graduates in Law of Cambridge shall when incorporated become B.C.L. or D.C.L., and Litt.D.'s of Dublin shall become D.Litt. of Oxford. Any applicant for incorporation must have kept by residence at his Univ. before taking his degree the same number of terms that he would have been required to keep at Oxford for the corresponding degree. While an undergraduate is allowed to incorporate as a matter of course, a graduate must first satisfy the Hebdomadal Council that there are adequate reasons.

In 1910 a Delegacy for **WOMEN STUDENTS** was constituted, and provision made for recognition by the Univ. of Societies for their reception for academical study, students on the books of such Recognized Societies being accorded a

privileged status. Under the provisions of a Statute approved by Convocation on May 11, 1920, which came into force on Oct. 7, 1920, women may be matriculated and admitted to degrees in the Univ. Previous to matriculation a woman must have been admitted as a member of one of the 5 Societies of Women Students. A woman may be admitted to *Responsions* before matriculation, provided her name is sent in to the Asst. Registrar by the Head or a Tutor of a Soc. to which she *bona fide* desires admission. Women members of the Univ. are admitted to all degrees under the same conditions as those prescribed for men as regards standing, examns., course of study, exercises, and fees, and under analogous conditions as regards residence. A Women Students' Property Committee administers all property vested in the Univ. for the benefit of women members of the Univ. generally, and in particular the Nettleship Library and Bertha Johnson Loan Fund. The Delegacy for Women Students was abolished in 1920.

The number of resident undergraduate members of the Society of Home-Students (who keep statutable residence in houses approved by the Delegates for Lodgings) is limited at present to 220, exclusive of "Advanced students," and of an additional number not exceeding 5 in any term as may for exceptional reasons be given permission to reside. Preference is given to those applicants for admission to the Society whose homes are in Oxford.

The number of undergraduates in residence at the other Societies of Women Students are also limited by Statute to 160 in the cases of Lady Margaret Hall and St. Hugh's Coll., and to 150 in the cases of Somerville Coll. and St. Hilda's Coll.

**TERMS.** The Academical year, which begins in Oct. and ends in July, consists of 3 terms, Michaelmas, Hilary, and Trinity, beginning, respectively, on Oct. 1, Jan. 10, and the Wednesday after Easter Day, and ending Dec. 17, the day before Palm Sunday, and the Saturday after the first Tuesday in July. Residence within the walls of a College or Hall, or in licensed lodgings,\* during a certain number of terms, usually 9, and never less than 6, is a condition of admission to any degree. Full terms begin: 1937-38—Oct. 10, Jan. 16, April 24; 1938-39—Oct. 9, Jan. 15, April 23; end: 1937-38—Dec. 4, March 12, June 18; 1938-39—Dec. 3, March 11, June 17.

**DEGREES.** B.A., M.A., B.Litt., D.Litt.: B.Sc., D.Sc.; D.Phil.; B.D., D.D.; B.C.L., D.C.L.; B.M., B.Ch., M.Ch., D.M.; B.Mus., D.Mus.

The degrees which are open to graduate students of other Univs. who are qualified for matriculation at Oxford are those of B.A., B.Litt., B.Sc., D.Phil., B.C.L., and B.D.

**ARTS.** Examns. in Arts, more usually called "Schools," are sharply divided into Pass and Honour examns.; in the former there is but one standard, in the latter successful candidates are distributed into 3 or 4 classes. No one is admitted to a place in the Class Lists who has exceeded a certain number of terms reckoned from Matriculation. No conditions of residence are attached by the Univ. to either Pass or Honour examns.; it is simply for the attainment of the degree of B.A. that residence is obligatory. Every Coll., Hall, and Society, however, has its own rules with regard to both residence and the entry for examns. A candidate for the degree of B.A. must (1) reside at the Univ. as a matriculated member during 9 terms, unless he is privileged as a member of another Univ. or as a "Service" Student; (2) pass or obtain Honours in the following examns., namely:

\* In special circumstances leave to reside in a house which has not been licensed may sometimes be obtained.

(a) *Responsions*. This is the Entrance Examination to the University. It must be passed, or some examn. accepted as equivalent to it, before matriculation. Names of candidates must be entered through an officer of the Society to which they intend to belong. See Appendix I.

(b) *The 1st Public Examn.* This consists of (1) Honour Classical Moderations, (2) Hon. Math. Modns., (3) Hon. Sci. Modns., (4) Pass Modns., (5) Law Modns., (6) Prelim. Nat. Sci., (7) Prelim. Agric., Forestry, and Geography. In order to pass the Examn. a candidate must pass in one of these subjects.

(c) *The 2nd Public Examn.* This consists of (a) a Pass School and (b) an Honour School. (a) Contains a large variety of subjects, and candidates taking it are required to pass in 3 of these, of which one must be a language-subject other than English. There is also a homogeneous course in *Forestry*. (b) Includes the following, a class in any one of which is sufficient: Literæ Humaniores (Philos. and Ancient Hist.); Maths.; Nat. Science (Phys., Chem., Physiol., Zool., Bot., Geol., Astron., or Engin.); Jurispr.; Mod. Hist.; Theol.; Oriental Studies (Sanskrit, Arabic, Hebrew, Persian, or Egyptian); Engl. Lang. and Lit.; Mod. Langs. (French, Ger., Ital., Span., Russ., or Mediæval and Mod. Greek); Philos., Politics, and Econ. (Modern Greats); Geog.; Agric.

Under certain conditions, members of other Univs. and officers not under 21 yrs. of age who have held for not less than 3 yrs. a Commission in H.M. Regular Forces, and been seconded or specially relieved from active duty by the Admiralty, War Office, Air Ministry, or India Office for the purpose of attending an academic course of not less than 2 yrs., may be admitted to the status of "Senior Student" and "Service Student" respectively, and obtain exemption from Responsions, and, under further conditions, from the 1st Public examn., as well as a remission of 3 terms of the necessary residence (v. App. I). Analogous concessions are made in favour of Probationers for Forest Services in the British Empire who have obtained an approved degree at an approved Univ. and been admitted to the status of "Imperial Forest Service Student."

**ADVANCED STUDY AND RESEARCH.** The DEGREES B.LITT. and B.Sc., instituted in 1895 in order to encourage special study and research, are granted upon the satisfactory completion of an approved course of special study or research pursued under supervision and for the most part at Oxford and of at least 6 terms' residence. Application to enter upon such a course may be made by any person who produces sufficient evidence of his ability and (1) is a member of the Univ. who has passed the examns. for the degree of B.A., or (2) has taken an approved degree at an approved Univ., or (for the B.Litt.), not being a member of the Univ. of Oxford, (3) has obtained an Oxford diploma with distinction, or is held by the Board of the Faculty to be fully qualified to engage in research. Applications must in all cases be made to the Secy. of Faculties through an officer of the Society to which the candidate belongs or desires to belong. Residence as a member of the Univ. for 6 terms is a necessary condition for either degree. A candidate for the B.Litt. must first undergo a course of training in research methods and then do a special piece of research work and write a thesis, and may be required to pass a written examn. For the B.Sc., which is confined to the Faculties of Science and Medicine, no probationary period is prescribed.

Of a similar nature, but of a much higher standard, is the degree of DOCTOR OF PHILOSOPHY instituted in 1918 (v. p. 13).

The higher degrees, D.LITT. and D.Sc., instituted in 1900, are awarded to graduates of Oxford for published work of outstanding merit.

**THEOLOGY.** The B.D. degree is open to candidates of over 26 yrs. of age



who have passed a Qualifying examn. in Christian Theology, pursued a course of study therein extending over 6 terms, resided for 6 terms, and submitted a thesis of sufficient merit in some branch of the subject. No candidate may present a thesis until he has passed the Qualifying examn., which is open to Oxford M.A.'s, to persons who have, not less than 5 terms previously, passed all examns. for the Oxford B.A., and, under certain conditions, graduates of other Univs. First-class hon. in School of Theol. exempts from this examn.

The degree of D.D. is open to those who have been admitted to the Oxford degree of B.D., subject to certain conditions of standing, provided they have submitted a thesis, or published work, of sufficient merit in some branch of Christian Theology.

**LAW.** The examn. for the B.C.L. degree is open either (1) to B.A.'s of the Univ. or (2) under certain conditions (including residence for 6 terms) to graduates in Arts, Philos., Science, or Law of other Univs. The subjects are Jurispr., Roman, Engl., Roman-Dutch, and Internat. Law.

**MEDICINE.** The B.M. degree is open only to B.A.'s of the Univ. who have passed certain examns. in Med. and Nat. Science. The total period of study for the degree (including the scientific subjects studied in the Arts course) is generally about 7 or 8 yrs., of which 2 or 3 are usually spent in London in preparation for the more strictly professional subjects of the 2nd B.M. examn. The M.Ch. degree is open to candidates who have passed all the examns. for the B.M. and B.Ch., and either are members of the Surgical staff of a recognized hospital or have acted in such a hospital as Dresser or House Surgeon for 6 months. A candidate for the D.M. must be a B.M., and have entered on the 30th term from matricn. and had his name on the books of some Coll. or Hall or Society for 20 terms.

Senior Students may be exempted from the preliminary examn. in Physics, Chemistry, Zoology, and Botany, in consideration of equivalent examns. passed at their previous Universities.

**MUSIC.** The degree of B.Mus. is open to candidates who *either* (a) have been admitted to the degree of B.A. or (b) have (1) passed Responsions or an equivalent Examn., (2) pursued at the Univ. a course of musical study extending over at least 2 yrs. All candidates must also pass 2 examns. in Music (and compose a Musical Exercise) under conditions laid down by Statute. Residence for 6 terms is required, and the examn. may be completed in 6 terms as in the case of the Degrees of B.Litt. and B.Sc. A B.Mus. may qualify for the degree of D.Mus. by submitting a musical composition for approval and passing a further examn. in Music, but cannot submit a composition until the 9th term after his admission to the Baccalaureate.

**DIPLOMAS.** Most of these are open to persons who are not members of the Univ. Minimum courses and addresses of Secretaries from whom particulars can be obtained:

Geography, 1 yr., The Director, School of Geog., Mansfield Rd.

Education, 1 yr. (or Vacation course, v. *infra*), Director, Department of Education, 15 Norham Gardens.

Economics and Political Science, The Secy., Committee for E., University Registry.

Public and Social Administration, The Secy., Committee for E., University Registry.

Anthropology, 1 yr., The Secy., Committee for A., University Museum.

Forestry, 1 yr., The Professor of F., School of F. Open to graduates of Oxford or other Univs.

Rural Economy, 1 yr., the Professor of R.E., School of R.E.  
Classical Archæology, 1 yr., Secy. to Committee on C.A., Ashmolean Museum.

Theology, 1 yr., Secy. of Faculties (open only to members of the University).

Comparative Philology, 1 yr., the Prof. of C.P., Worcester Coll.

Ophthalmology, Dean of the Medical School, University Museum. Open to Registered Medical Practitioners and to approved Bachelors and Doctors of Med. of Univs. outside the U.K.

*Certificates*: General and Regional Geog. (minimum course, 1 term), Director, School of Geog.; Physical or Cultural Anthropology, 3 months, the Secy., Committee for A., University Museum; Training for Social Work, the Secy., Social Training Committee, Barnett House. Public Administration, the Secy., Committee for E., University Registry. Proficiency in Estate Management, the Professor of R.E., School of R.E.

COMMISSIONS IN BRITISH (REGULAR) OR INDIAN ARMIES (v. Appendix IV. 1). Candidates must have resided for 3 yrs. at the Univ., be over 21 and under 24, be of pure European descent and a British subject, be unmarried, be in possession of a degree, and obtain a satisfactory attachment (4 or 8 weeks) report with a Regular unit. (a) An Honours degree second class entitles the holder to have his name submitted to the War Office for a scholarship, on gaining a commission, of £50 for 5 yrs. (b) Antedates of 18 months, subject to the recommendation of the Delegacy for Military Instruction and approval of the War Office, are granted to accepted candidates. Office of the Secy. to the Delegacy for Military Instruction—H.Q.O.T.C., Manor Road.

AVIATION. Membership of the University Air Squadron is granted by selection to members of the University after interview by a Selection Committee. All candidates must obtain parental and College permission to join, and must be up to the full medical standard of the Royal Air Force. There are no fees for entrance, medical examination, or flying instruction, but a small annual subscription is imposed for Club purposes. Every member undertakes to obtain the Squadron Certificate of Proficiency by the end of his second year in the Squadron. This involves passing an examn. in four ground subjects, and it qualifies the holder to fly solo in term time. The Squadron is limited to 75 members, and in consequence there is great competition for membership. Students from overseas are advised to bring parental consent to join the Squadron with them before they sail for England.

INDIAN CIVIL SERVICE. Studies of selected candidates are superintended by a Delegacy.

The DEPARTMENT OF EDUCATION (address—15 Norham Gardens), established in 1919, is under the general direction of a Delegacy. For staff, see under Education. For the Univ. Dipl. in Educn. there is a 1 yr. post-grad. course, theoretical and practical. Undergraduates are admissible on certain conditions. One or, under certain conditions, two terms may be spent in practical work at a secondary school or, by special permission, abroad at an approved European Univ. Students are also accepted for a 4 yrs.' course (v. Appendix IV. 21).

A *vacation course* of 4 weeks (fee £7 : 10s.) is held from time to time in Aug. and will again be held in 1938. The whole or part of this course is open without restriction to men and women, and University graduates with not less than 7 yrs.' full-time experience as teachers in schools approved by the Delegacy may, under certain conditions, take the Examn. for the Univ. Diploma in Education after attending the full Vacation Course of four weeks.

**SCHOLARSHIPS AND FELLOWSHIPS.** College Entrance scholarships are very numerous and valuable. The Univ. scholarships and fellowships are usually open only to members of specified standing. Of those open to graduates, 16, of the aggregate value of £1130 p.a., are for Engl., Greek, and Latin; 1 (£100) is for Ment. and Mor. Philos.; 2 (£80) for Maths.; 8 (£1340) for Med. and Nat. Science; 4 (£440) for Law; 3 (£300) for Theol.; 13 (£760) for Oriental Studies. The Univ. offers a number of *Research Scholarships and Studentships*, e.g. a Biological scholarship (annually, £200 for 1 yr.) tenable at the Zoological Institute, Naples; the George Webb Medley Scholarships (2 annually, £80 to £300 p.a. for 2 yrs., renewable for not more than 3 yrs.), for Economics and Polit. Sci.; the Scott Scholarships (2 annually, c. £95 for 2 yrs.), "for the furtherance of physical science"; the Beit Senior Research Scholarship (on terms decided by the Bd. of Management of the Beit Fund, up to £250 in any yr.), for Colonial History; the Henry Francis Pelham Studentship (biennially, £100 or less for 1 yr.), tenable at the British School of Archaeology at Rome; a Research Studentship (occasionally for 1 yr.), for Greek Lit.; the Bryce Research Studentship (annually, £240 for 1 yr.), for History.

There are also *Travelling Scholarships and Studentships*, e.g. the Derby Scholarship, for classical scholarship (incl. palæography and philos.), offered annually (£200-£300 for 2 yrs., of which at least 8 months must be spent abroad); the Heath Harrison Travelling Scholarships (13 annually, £75 usually for 1 yr.), for study of a modern lang. abroad; the Zaharoff Travelling Scholarships (1 or more annually, £150 for 1 yr.), for promotion of French studies; the de Osma Studentship (annually, the net income from £2110 odd Funding 4 per cent. Stock), for not less than 6 weeks' study at the Instituto de Valencia de Don Juan, Madrid; the George Herbert Hunt Travelling Scholarship (every other yr., c. £100), for Medicine.

The Colls. have power to elect persons distinguished in Science or Literature to Senior Research Fellowships on condition of prosecuting some definite work; they have also power to elect from time to time Junior Research Fellows for limited periods, usually after examn.

There are certain funds, such as the Craven and Ireland, from which grants for the furtherance of particular studies may be made.

For open post-graduate Scholarships and Fellowships, *see* App. II.

The Rhodes Scholarships were founded in 1902 under the will of the late Cecil John Rhodes. The value of each is £400 a yr., tenable at the Univ. of Oxford, and may be held for 3 yrs. Appointments are made for 2 yrs. in the first instance, and a Scholar wishing to remain for a third year must present a definite plan of study for that period satisfactory to his College and to the Rhodes Trustees.

Rhodes Scholars may, if the conditions are approved by their own College and by the Oxford Secretary to the Rhodes Trustees, either postpone their third year, returning after a period of work in their own countries, or spend their third year in post-graduate work at a Univ. of Gt. Britain, and in special cases at a Univ. on the continent of Europe, in the overseas Dominions, or in the United States, but not in the country of their origin. The conditions of the competition in each country or community are fixed from time to time by the Trustees.

In his will, Mr. Rhodes expressed the wish that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindness, unselfishness, and fellowship; and (4) his exhibition during school-days of moral force of

character, and of instincts to lead and to take an interest in his school-mates."

*The Dominions and Colonies.* An annual Scholarship is assigned to each Province\* of the Dominion of Canada; to each State of the Australian Commonwealth; to the Dominion of New Zealand (2); in South Africa to the Province of Natal, the Transvaal, the Orange Free State, the Cape Province, the S.A. College School in Cape Town, the Diocesan College School of Rondebosch, the Boys' High School, Stellenbosch, and the St. Andrew's College School at Grahamstown, in alternate years to the Eastern Province, and not more than three annually to Rhodesia. The Colonies of Jamaica, Newfoundland, and Bermuda have each an annual Scholarship. A single Scholarship was for the first time allotted to the Island of Malta in 1921, and is awarded once in 3 yrs.

In founding these Scholarships, Mr. Rhodes stated that he did so because he believed that the education of young Colonists at one of our residential universities will "broaden their view," "instruct them in life and manners," and "instil into their minds the advantage to the Colonies as well as to the United Kingdom of the retention of the unity of the Empire."

*United States of America.* 4 Scholarships are assigned annually to each of 8 regions, of 6 States each, which are awarded among candidates sent forward from each State in the region. The reason given by Mr. Rhodes for founding the American Scholarships is his "desire to encourage and foster an appreciation of the advantages which I implicitly believe will result from the union of the English-speaking people throughout the world, and to encourage in the students from the U.S. . . . an attachment to the country from which they have sprung, but without I hope withdrawing them or their sympathies from the land of their adoption and birth." *The American Oxonian*, the official magazine of the Alumni Assn. of American Rhodes Scholars, is published quarterly by George E. Barnes, 6376 City Line Avenue, Philadelphia.

*Germany.* Two annual German Rhodes Scholarships of £350 a year each are tenable at Oxford for 3 yrs. The reason given by Mr. Rhodes for founding the German Scholarships is "that an understanding between the three great powers will render war impossible and educational relations make the strongest tie."

*Number actually in residence, 1936-37* (whole or part), 185; (93 from the Brit. Empire, 86 from the U.S.A. and 6 from Germany)—Studying Law, 29; Nat. Sc. and Med., 56; History, 17; Econs. (Dipl., etc.), 8; Lit. Hum., 10; Eng., 14; Maths., 6; Phil. Pol. and Econs., 36; Mod. Langs., 3; Geography, 2; other subjects, 4.

*Professions followed by Rhodes Scholars since leaving Oxford.* Education, 612; Law, 413; Business, Industry and Mining, 235; Govt. Service, 112; Medicine, 149; Ministry and Social Work, 56; Journalism and Publication, 56; Engineering, 42; Farming, 23; Forestry, 16; Army, Navy and Air Force, 24; Miscellaneous and further Academic Studies, 58; unknown or not yet settled, 32.

*General.* Provision is now made under the Trust for the continuous residence at Oxford of between 190 and 200 scholars. Candidates must be between 19 and 25 years of age and unmarried. They must be citizens of the country from which they come—usually with 5 yrs.' domicile; and must have at least 2 yrs.' standing at a regular degree-granting College or Univ., except in a few small communities which have no such institution. Detailed information for each country may be obtained from the offices of the Rhodes Trust, Seymour House, Waterloo Place, London, S.W.1.

\* Two each to Quebec and Ontario.

*Secretary to the Rhodes Trustees*—The Marquess of Lothian, C.H., Seymour House, Waterloo Place, London, S.W.1. Local Secretaries: Oxford—Sec. to the Rhodes Trustees and Warden of Rhodes House, C. K. Allen, D.C.L., Rhodes House, Oxford; *U.S.A.*—President Frank Aydelotte, Swarthmore College, Swarthmore, Pa.; *Canada*—D. R. Michener, 372 Bay St., Toronto; *Australia*—J. C. V. Behan, LL.D., Warden's Lodge, Trinity College, Carlton, N.3, Victoria; *S. Africa*—P. T. Lewis, M.C., K.C., Temple Chambers, Wale St., Cape Town.

THE APPOINTMENTS COMMITTEE deals with appointments of all kinds. It has representatives and correspondents in all Colls. Sec.: H. B. Moore, M.C., M.A. Ednl. Sec., E. A. Greswell, M.A., 36 Beaumont St. Telegrams—Appointments, Oxford. Telephone—3225.

1937, 397 permanent appointments, including: Government, 87; Education, 191; Business and Industrial, 104; Journalistic, Secretarial, etc., 15; Temporary, 92.

WOMEN'S APPOINTMENTS COMMITTEE. Sec., Miss M. C. Robertson, B.A., 41 St. Giles', Oxford.

THE BODLEIAN LIBRARY, founded by Sir Thomas Bodley in 1602, which is also the general library of the Univ., contains over 1,400,000 vols. (representing more than 2,800,000 separate literary pieces) and 40,000 MSS. Persons other than graduates of the Univ., are admitted on presenting a recommendation from some one in a responsible position in Oxford or elsewhere, knowing the applicant personally. The *Readers' Manual* (obtainable from the Librarian) contains full information about the contents and catalogues of the Library; the *Visitors' Guide* (on sale at the Library, 3d.) gives a short history and a list of the chief exhibits. The chief books relating to it are: Macray, W. D., *Annals* (Clar. Press, 1890, 25s.); Clark, A., *Guide for Visitors* (Clar. Press, 1906, 1s. 6d.); Gibson, S., *Some Oxford Libraries* (Clar. Press, 1914, 2s. 6d.); Madan, F., *The Bodleian Library* (London, Duckworth, 1919, 2s. 6d.); *The Bodleian Quarterly Record* from 1914 (1s. quarterly, obtainable from the Libn.).

There are the following dependent libraries of the Bodleian:

*The Law Library* (law of English-speaking countries) at the Examination Schools.

*The Radcliffe Science Library* at the Univ. Museum, about 200,000 vols., consisting largely of books and periodicals on Mathematics, Natural Science and Medicine.

*The Indian Institute Library*, devoted to Oriental studies. There is also in the Indian Institute a museum illustrating Indian antiquities and Indian life.

*Rhodes House Library* (history of the British Empire and the U.S.A.).

THE TAYLORIAN LIBRARY (Modern Languages and Literature), 120,000 vols., comprises the chief philological, literary, and historical works of the principal European languages and nearly all respective Reviews, Literary periodicals and publications of Continental Societies of importance.

COLLEGE LIBRARIES. Modern History and Law, at All Souls (The Codrington Library); Political Economy and Science, also at All Souls (The Brand Library). Other important collections include Russian and Slavonic books, at Queen's; History and Literature MSS. of 17th cent., at Worcester; Music and Early Scandinavian collections, at Christ Church. The MSS. in the College Libraries are described in Cox's Catalogue, published at the Clarendon Press, 1852.

There are also: the Nettleship Library, 1 Jowett Walk (Librarian—M. C. Draper); the English Library (Examination Schools) (Librarian—J. L. N. O'Loughlin, M.A., St. Edmund Hall); a Geographical Library (c.

14,000 vols. excluding periodicals) and Maps (c. 17,000) at the School of Geography, Mansfield Rd. (Librarian—J. N. L. Baker, M.A., B.Litt. Jesus); and Social Studies Library at Barnett House.

**MUSEUMS.** *The University Museum* includes collections and laboratories with the following depts.: Med. and Public Health, Human Anat., Pathol., Pharmacol., Chem. (Dyson Perrins Lab. and Old Chem. Dept.), Geol. and Palæontol., Mineral., Engin. Science, Physics, Physiol., Biochem., Zool. and Comparative Anat., Zool. (Lepidoptera collection illustrating mimicry, etc.), Experimental Philos.

*The Ashmolean Museum* (Keeper—E. T. Leeds, M.A. B.N.C.), contains, in addition to a Library of Art and Archæology, the Parian and other marbles, Egyptian and Oriental, Classical, Prehistoric, Anglo-Saxon, and local antiquities, 60,000 coins and medals (published catalogue of Mohammedan coins), and a special collection of Drawings and Engravings by Ruskin.

*The Museum of the History of Science* (Curator—R. W. T. Gunther, M.A. Magd.) in the Old Ashmolean building illustrates the history of scientific studies, especially in Oxford, by contemporary instruments, engravings, and books.

*The Pitt-Rivers Museum* (Curator—Prof. H. Balfour, M.A. Exe.) has an anthropological collection illustrating the evolutionary history of material arts.

**LABORATORIES:** Electrical; Clarendon (chiefly for study and research in Heat, Optics, and Acoustics); Chemistry, Organic and Inorganic (several Colleges have labs. of their own, e.g. Ch. Ch.—Analyt. Chem.; Ball. and Trin.—Phys. Chem.; Jes.—Inorganic; Physiology; Biochemistry; Zoology; Entomology, with extensive Collections and Library; Botany (Garden with Collections and Library); Geology (special equipment for study of fossils by serial sections); Mineralogy (special facilities for research in Crystallography); Engineering; Forestry (expl. plantations and forest garden); Human Anatomy; Pathology and Bacteriology; one *Observatory*.

**THE IMPERIAL FORESTRY INSTITUTE** (Director—J. N. Oliphant, M.A., Dipl. For.) was founded in 1924 as a result of a resolution of the British Empire Forestry Conference held in Canada in 1923. It is at present financed mainly by Colonial Governments, the Forestry Commission, certain Provinces of India and Burma: it provides post-graduate training and refresher courses for forest officers of the Empire and others, undertakes the structural examination and identification of woods and the identification of trees, and carries out research on biological and economic problems bearing on forestry. The Institute is controlled by a Univ. Committee on which the Government Depts. contributing to its support are represented. Address: Sec., Imperial Forestry Institute, Parks Rd., Oxford.

**THE SCHOOL OF RURAL ECONOMY** is the Department of the University responsible for teaching in Agriculture. There is an *Institute for Research in Agricultural Economics* and an *Institute for Research in Agricultural Engineering*. There is a farm in connexion with the School and the Institutes for demonstration and experimental purposes. The School and the Institutes are mainly financed by grants made by the Ministry of Agric. to the Univ. for this purpose. (See App. III. A. I. (e), (g).)

**THE NUFFIELD INSTITUTE FOR MEDICAL RESEARCH**, founded 1935. Director—J. A. Gunn, M.A. Edin. and Ox., M.D., D.Sc. Edin., F.R.C.P. (Nuffield Prof. of Therapeutics). Asst. Director—K. J. Franklin, M.A., D.M. Or. The Institute is housed in the old Radcliffe Observatory which, with its surrounding

grounds, was purchased by Lord Nuffield from the Radcliffe Trustees and presented to the Univ. to be converted for its present purpose. It is intended that the work done in the Institute should afford a bridge between the research done in the Univ. pre-clinical laboratories and that done in the Radcliffe Infirmary. At present the laboratory is specially equipped for Experimental Therapeutics and for X-ray Cinematography.

THE INSTITUTE OF STATISTICS, founded 1935, works under the Social Studies Research Committee. It is a centre for statistical research in economics and social studies and for the teaching of statistical methods. The Institute provides facilities for research: books and periodicals, expert advice in the use of statistical sources, and calculating machines. Director—J. Marschak, M.A.. Secretary and Librarian—H. E. Caustin, B.A. Address: 74 High Street.

INSTITUTE OF EXPERIMENTAL PSYCHOLOGY, founded 1936. Temporarily housed in St. Giles School, Banbury Rd. Director—W. Brown, D.Sc. Lond., D.M. Ch.Ch., F.R.C.P. (Wilde Reader in Mental Philos.); Asst. Director—W. Stephenson, M.Sc. Durh., Ph.D. Durh. and Lond., M.A. C.C.C.

SOCIETIES APPROVED FOR HIGHER STUDY AT OXFORD. The following have been approved as Societies for higher study at Oxford, the members of which may have their names entered in the Univ. Register of Diploma students although they are not members of the Univ.:

Barnett House, 34-35 Beaumont St. (1915). President—The Warden of All Souls. Vice-President—Prof. D. H. Macgregor, M.A.

The Social Studies Committee of Barnett House, which has, for a number of years, been responsible for the operation of the Univ. Social Training Course, is prepared to provide for the tuition and arrangement of work of students, where such provision is not made for them by their own colleges. The cost is at the rate of £6 a term for full-time, and £3 a term for part-time students who propose to take the Diploma course in 2 yrs. Special provision is made for the observational work required in connexion with the subject of Public and Social Administration. A bursary is sometimes offered in reduction of tuition fees. Further particulars from the Secretary for Social Training (Miss C. V. Butler, M.A.).

Catholic Workers' College (1921). Principal—Rev. L. O'Hea, S.J., M.A.

Subject to accommodation being available, any adult working-class student is admitted provided that the fees are guaranteed, the College regulations accepted and references supplied in proof of good character. The Principal must also be satisfied of the candidate's aptitude as a student. Period of residence, 1 or 2 yrs. Fee, £100 p.a., covering board, lodging, lectures and tuition. Particulars of available scholarships may be obtained on application to the Principal.

Ruskin College, Walton St. (1899). Principal—A. Barratt Brown, B.A. Lond., M.A.

A residential college for Adult Education, open on equal terms to men and women students. Foreign students must produce evidence of sufficient knowledge of English to enable them to follow the courses. Fee, £100 p.a., covering board, residence and tuition. Students are also admitted for less than a year; fee, 2 terms £75, 1 term (of 11 weeks) £40, 1 month £15. A list of scholarships available will be supplied on application to the Secretary.

THE OXFORD AND CAMBRIDGE SCHOOLS EXAMN. BOARD, established 1873, examines or inspects and reports on the work of schools which provide educa-

tion of the highest grade. It also holds yearly examns. and awards certificates—Higher, School and Lower. The two former exempt the holder, under certain conditions, from Responsions and the Previous Examination, the Matricn. examns. of London, the Northern and other English Univs., and the Preliminary examns. of various professional bodies, etc. The Regulations of the Board are published by the Ox. and Camb. Univ. Presses (post free rs. 3d.). Secretaries: at Oxford—C. H. Wilkinson, M.A., 74 High St.; at Cambridge—T. G. Bedford, M.A., 10 Trumpington St.

LOCAL EXAMINATIONS are held in July and Dec. at Oxford and elsewhere. Successful candidates in the School Certif. or in the Higher School Certif. Examn. are on certain conditions exempted from Responsions, the Cambridge Previous and various matricn. examns. The Regulations may be obtained from the Secretary of Local Examinations, Merton St. All the examns. are open to persons of both sexes. The Higher School Certif. Examn. is held in July only.

In December 1936 the School Certif. Examn. was held at 211 Centres (of which 9 were overseas) and the Junior Examn. at 58 Centres (of which 5 were overseas). The total number of Candidates was 3758, viz. School Certif., 3388, Junior 370.

In July 1937 the Higher School Certif. Examn. was held at 145 Centres, the School Certif. Examn. at 448 Centres (of which 10 were overseas), and the Junior Examn. at 185 Centres (of which 4 were overseas). The total number of candidates was 15,101, viz. Higher School Certif., 682, School Certif., 12,054, Junior, 2365.

EXTRA-MURAL STUDIES. There is a Department for the non-vocational education of adult persons beyond the limits of the Univ. The Delegacy for Extra-mural studies may recommend the admission of adult students to the Univ. without the necessity of passing Responsions. The Delegacy controlling the Dept. has three Committees, one for Univ. Extension Lectures, one for Univ. Tutorial Classes, and one for promoting adult education in Oxon, Berks, and Bucks.

*Univ. Extension Lectures.* The system begun in Camb. was adopted by Ox. in 1878. Up to the end of the session 1936-37 the number of persons attending courses was 717,830, and the number of students examined 30,967; 29 summer meetings had been held. Reading University partly owes its origin to extension work. The following certs. are issued under the sanction of the Delegacy: Terminal, on courses of 10 or 12 lectures; Sessional, on 24; Sessional in Honours, implying distinction and a special essay. Further information can be obtained from the Secy. to the Delegates for Extra-mural Studies, Rewley House, Wellington Square, Oxford (C. R. Morris, M.A.).

*Tutorial Classes* are held in working-class districts under the supervision of the Tutorial Classes Committee. Students pledge themselves to a 3 yrs.' course. The classes meet once a week for 2 hrs. from Sept. to April, and each student writes an essay about once a fortnight. The Organizing Secy. is E. S. Cartwright, M.A., Rewley House, Wellington Square, Oxford.

*Oxon, Berks and Bucks Committee*, formed in 1924 for promoting adult edn. in the villages and small towns of those three counties. In the session 1936-37 there were 75 courses held in 57 centres.

*The Oxford Summer Meeting* is held biennially, and will take place in August 1939. A Vacation Course for foreign students will be held in August 1938.

PUBLICATIONS. *Calendar* (Nov.), 12s. 6d. net (includes Honours of each year from 1931. Earlier Honours given in *Historical Register*, 1900, 10s. 6d.



net, and its *Supplement*, 1901-1930, 7s. 6d. net, giving, in addition to class lists and Hon. lists, information regarding constitution, university scholarships, offices and their incumbents, etc.). *Handbook to the Univ. of Oxford*, 1935, 5s. net (by post 5s. 6d.), includes: (i.) a general section on history, constitution and government, the tutorial system, life in college (and its cost), etc.; (ii.) a statistical section on degree courses and the like; *Responsions Pamphlet* (June), 6d., by post 7d. (Regns. for 1937-39 with dates of exams. and general information); *General Information* (admission, residence, entrance scholarships, exams. for B.A., etc.), 7d. post free; *Fellowships, Studentships, Scholarships, Exhibitions, and Prizes open to Undergraduate and Graduate Members of the University*, 1s. net (post, 1s. 1d.); *Statuta* (Oct.), 5s. net; *Examn. Statutes* (July), 3s. 6d. net (post, 3s. 10d.); *Pocket Diary* for academic year (Oct.), 2s. 6d. net and 3s. 6d. net (by post 2d. extra); *Resident Members*, with their addresses, 2s. 6d. net (term) by post 2s. 9d.; *Oxford and Cambridge Schools Examn. Board Decennial Reports*, 6d. net each (post 7d.), Annual Report and Regulations, 1s. net each (post 1s. 3d. each), Lists of Successful Candidates and Papers of the various Examinations; *Enactments in Parliament concerning Ox. and Camb., Winchester, Eton, and Westmr.*, 2 gs. All the above are obtainable from the Oxford Univ. Press, Amen House, Warwick Square, London, E.C.4, as is likewise the official *University Gazette* (annual subscription, 10s. 6d. post free). Unofficial periodicals: *Oxford Magazine* (during term), 6d.; *Oxford* (3 times a year), 1s. net; *Isis* (during term), 3d.; *Cherwell* (during term), 6d. Among other sources of information regarding the University the following may be cited: Wood (A.), *Hist. of the Univ. of Oxford*, 3 vols., 1792-96; Wood (A.), *Athenæ Oxon. (with Fasti)*, ed. by P. Bliss, 4 vols., 1813-20; Maxwell-Lyte (H. C.), *Hist. of the Univ. of Oxford to 1530*, 1886; Foster (J.), *Alumni Oxon., 1500-1886*, 8 vols., 1887-92; *The Colleges of Oxford*, ed. by A. Clark, 1891; *College Histories*, published by F. E. Robinson & Co.; Headlam (C.), *The Story of Oxford*, 1907 (7s. 6d. net); Mallet (Sir C.), *Hist. of the Univ. of Oxford*, 2 vols., 1924 (£2: 2s. net); Barnard (F. P.) and Shepard (T.), *Arms and Blazons of the Colleges of Oxford* (3s. 6d.) net; Fletcher (C. R. L.), *Handy Guide to Oxford* (1s. net); *The Government of Oxford*, 1931 (3s. 6d. net); Marriott (Sir John A. R.), *Oxford, its Place in National History*, 1933 (6s. net); Buxton (L. H. D.) and Gibson (S.), *Oxford University Ceremonies*, 1935 (6s. net.).

**EXPENSES.** "It is not possible to make any general estimate of the cost of a University course, which varies at different colleges, and depends upon the student's own means and tastes. It must suffice here to enumerate certain items common to all undergraduates, and to recommend persons anxious for further details to consult the authorities of the Society which they wish to join. . . . The total cost of living in college might perhaps be estimated at from £70 to £80 a term for a man who exercises reasonable care in his expenditure."—Extract from *General Information* pamphlet mentioned in preceding paragraph. The items specified are:—(1) Annual: Univ. dues, £6; College tuition fee, £24 to £33; room rent, £21 to £24; hire of furniture, £6; College clubs, £6; rates and taxes on the rooms occupied, College dues and establishment charges and servants' wages, kitchen and buttery bills, fuel, laundry, lighting, etc. (amounts not separately estimated). (2) Initial: matricn., £5; College admission fee (usually £5); College caution-money, £10 to £30 (returned when name is removed from the books, and often in part on taking a degree). (3) Occasional: examn. fees, about £9 for B.A. (exclusive of Responsions, £3); degree fees (B.A., B.Litt., or B.Sc., £7: 10s.). More detailed information about College expenses is contained in the *Handbook to the University of Oxford*, mentioned in the previous paragraph.

# THE YEAR 1936-37

**BENEFACTIONS.** Lord Nuffield made the following benefactions: (1) £2,000,000 to widen the scope of the Univ. Medical School, including the Nuffield Institute for Medical Research; (2) £100,000 for charitable purposes for promotion of higher studies in the Univ. The Rhodes Trustees, £100,000 to the Higher Studies Fund. To Ashmolean Museum: Sir Michael Sadler, £100 for the purchase of drawings; the National Art Collections Fund, picture, design and drawing; Mrs. T. F. R. Weldon, bequest of 51 paintings and 34 drawings. The Rockefeller Foundation, grant of £3400 to the Social Studies Research Committee for research on trade cycles. Dr. G. C. Druce, bequest of £1000 to the Bodleian Library and to the University certain property and moneys for housing and maintaining a Herbarium and Library. Lady Firth gave to the Bodleian Library a collection of ballads, broadsides, etc., forming part of the library of the late Sir Charles Firth. Friends of the late Jane Willis Kirkaldy, £300 to found a scientific prize in her memory. Lincoln Coll. presented to the Univ. a collection of anthropological, entomological and zoological museum specimens gathered from the upper waters of the Amazon by Major R. H. Thomas.

**NEW BUILDINGS.** Extensions to the Depts. of Biochemistry and Zoology and Comparative Anatomy.

**NEW POSTS.** Nuffield Professorships of Surgery, Clinical Medicine, Obstetrics and Gynaecology, Anæsthetics, Orthopædic Surgery, and Therapeutics; Readership in Bacteriology.

**LEGISLATION.** A Statute has been passed raising the stipends of all Modern Language Professors to £1200 p.a. The Statute concerning the Committee for Advanced Studies has been revised. A Statute has been passed further extending the facilities for taking degrees in absence. Legislative effect has been given to arrangements by which students from either Oxford or Cambridge will be allowed to keep residence in the other University while taking special courses of study. The privilege of incorporation has been extended to M.B.'s, M.D.'s and Masters of Surgery of Cambridge University. A Statute has been passed establishing an Honour School of Agriculture, and a Certificate of Proficiency in Estate Management. The Statutes concerning elections to Professorships and leave of absence for Professors have been revised.

**OTHER DEVELOPMENTS.** Demolition of the Broad Street houses to make way for the new Bodleian Building, work on which has begun. Plans for a new Lecture Theatre for the School of Geography have been approved. Further extensions of the Ashmolean Museum and the Taylor Institution on the St. Giles' front have been begun. Extensions to the Radcliffe Infirmary are in hand to provide for the activities of the newly appointed Nuffield Professors. The erection of a new Clarendon Laboratory has been authorized. Plans for an extension of the Department of Human Anatomy have been approved.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. P. Bosch Gimpera (Rector, Univ. of Barcelona), "The Influence of Ancient Indigenous Cultures on the Evolution of Modern Spain." Dr. D. T. Suzuki (Univ. of Kyoto), "Zen Buddhism and Chinese Thought." Prof. Dopsch (Univ. of Vienna), "The Agricultural Revolution at the Height of the Middle Ages." Dr. Li Chi, (Harvard), (Research Prof. in Archæology, Academia Sinica), "Ancient China in the Light of Recent Archæological Discoveries." Dr. B. H. Hill (lately Director of the American School of Classical Studies at Athens), "Recent

Investigations on the Acropolis of Athens." Prof. O. Elton (Emeritus Prof. of English Literature, Univ. of Liverpool), "Pushkin." Dr. W. Clemen (Bonn), "Shakespeare's Imagery : Its Dramatic Significance." Prof. The Svedberg (of the Fysikalisk-Kemiska Institutionen, Uppsala), "Sedimentation, Diffusion and Electrophoresis Technique for the Study of High-Molecular Compounds" and "Investigation on Proteins by means of Sedimentation, Diffusion, and Electrophoresis Technique." Prof. E. D. Adrian, "The Activity of the Cerebral Cortex." Dr. S. Marinatos (Curator, Candia Museum), "The Sacred Cave of Arkalochori in Crete." Mr. K. de B. Codrington (Keeper, India Museum), (Victoria and Albert Museum), "Indian Sculpture" and "Islamic India." Prof. Roscoe Pound (lately Dean of the Harvard Law School), "The Quest of a Canon of Values." Prof. L. H. Weed (Prof. of Anatomy, Johns Hopkins Univ., Baltimore, U.S.A.), for Dr. Lee's Prof. of Anatomy, "The circulation of the Cerebro-spinal Fluid."

DEGREES BY DIPLOMA. *D.C.L.*—H.R.H. The Prince-Regent of Yugoslavia, M.A. Christ Church; H.I.H. Prince Chichibu of Japan, Magdalen Coll.; H.R.H. The Crown Prince of Norway, Balliol Coll.

HONORARY DEGREES. *D.D.*—The Most Rev. Erling Eidem, Archbishop of Uppsala; William Adams Brown, M.A., Ph.D., D.D., Prof. Emeritus of the Union Theological Seminary; Stefan Zankow, Prof., Univ. of Sofia; Emil Brunner, Prof. of Theol., Univ. of Zürich; Joseph Houldsworth Oldham, M.A., Trinity Coll., Secretary, International Missionary Council. *D.Litt.*—Prof. J. Huizinga; Walter Ewing Crum, M.A., Ph.D., F.B.A., Balliol Coll.; Harley Granville Granville-Barker, LL.D.; Monsieur Jacques Bardoux, Membre de l'Académie des Sciences Morales et Politiques; George Peabody Gooch, Hon. Fellow of Trinity Coll., Cambridge. *D.C.L.*—James Bryant Conant, President of Harvard Coll.; H.E. Mr. Robert Worth Bingham, American Ambassador at the Court of St. James's; H.E. Monsieur Joseph Louis Anne Avenol; Rt. Hon. Michael Joseph Savage, Prime Minister of New Zealand; Rt. Hon. William George Arthur Ormsby-Gore, M.P., M.A., Hon. Fellow of New Coll., Secretary of State for the Colonies; Rt. Hon. Sir Tej Bahadur Sapru, K.C.S.I.; Rt. Hon. Sir Akbar Hydari; Hon. Robert Henry Brand, C.M.G., M.A., All Souls Coll.; Sir Abdur Rahim, K.C.S.I.; Sir Herbert Baker, K.C.I.E.; Frank Aydelotte, B.Litt., Hon. Fellow of Brasenose Coll. *D.Sc.*—John Donald Pollock, O.B.E., LL.D., M.D.; Professor The Svedberg; Walter Nernst.

SPECIAL ANNUAL LECTURES. The Sidney Ball Lecture was delivered by Sir H. Llewellyn Smith (subject: "The Border-land between Public and Voluntary Action in the Social Services"); the Halley Lecture, by Dr. B. F. J. Schönland (subject: "The Lightning Discharge"); the Rhodes Memorial Lecture, by Dr. E. P. Hubble (subject: "The Observational Approach to Cosmology"); the Romanes Lecture, by Dr. Harley G. Granville-Barker (subject: "On Poetry and Drama"); the Herbert Spencer Lecture, by Dr. J. Needham (subject: "Integrative Levels, a Revaluation of the Idea of Progress"); the Taylorian Annual Lecture, by Sir H. J. C. Grierson (subject: "Two Dutch Poets"); the Zaharoff Lecture, by M. Jacques Bardoux (subject: "The Foreign Policies of England and France: a Social and Comparative Psychology").

RETIREMENTS. Dr. A. B. Poynton, Master of University Coll.; Prof. D. S. Margoliouth, Laudian Prof. of Arabic; Prof. H. A. Prichard, White's Prof. of Moral Philos.; Prof. F. Soddy, Dr. Lee's Prof. of Chem.; Prof. A. G. Tansley, Sherardian Prof. of Bot.; Prof. F. W. Thomas, Boden Prof. of Sanskrit; Sir

Benjamin Lindsay, Reader in Indian Law ; Prof. H. G. Fiedler, Taylor Prof. of German ; Mr. G. Smith, Director of the Dept. of Education.

DEATHS. Mr. C. H. Sampson, Principal of Brasenose ; Canon B. H. Streeter Provost of Queen's ; Prof. A. C. Clark ; Prof. W. J. Sollas ; Prof. W. M. Lindsay ; Prof. P. Gardner ; Prof. E. B. Elliott ; Prof. Spenser Wilkinson ; Prof. S. Langdon ; Sir Frederick Pollock ; Sir Henry Hadow ; Dr. J. K. Fotheringham ; Dr. L. R. Phelps ; Dr. F. C. S. Schiller ; Mr. J. L. Stocks ; Mr. A. A. Blakeway ; Rev. J. F. Russell ; Mr. F. G. Cholmondeley ; Mr. C. E. Haselfoot ; Mr. A. Mendelssohn Bartholdy ; Miss C. M. Moberly, first Principal of St. Hugh's Coll.

STUDENTS. Full-time, 4920 ; research students, 270 ; preparing for first degree, 4337 ; other full-time students, 313. Matriculation, 1555.

EXTRA-MURAL TUTORIAL CLASSES. Advanced, 10 three-year ; 1 preparatory ; 11 vacation. Total students enrolled, 896.

UNIVERSITY EXTENSION LECTURES. 272 at various centres, aggregate average attendance, 634. Of these courses 14 were in Hist., 3 in Lit., 2 in Art, 1 in Econ., 1 in Psychol., 1 in Pol. Theory, 1 in Philos.

DEGREES. B.D., 3 ; D.D., 2 ; B.A., 1083 ; M.A., 574 ; B.Litt., 39 ; D.Litt., 5 ; B.C.L., 21 ; B.Sc., 22 ; D.Sc., 4 ; B.M., 30 ; D.M., 7 ; M.Ch., 1 ; B.Mus., 6 ; D.Mus., 2 ; D.Phil., 43.

# UNIVERSITY OF READING

Founded 1926

VISITOR—H.M. THE KING.

CHANCELLOR—The Rt. Hon. Sir SAMUEL HOARE, G.C.S.I., G.B.E.,  
C.M.G., D.C.L., LL.D., M.P.

VICE-CHANCELLOR—Sir T. FRANKLIN SIBLY, D.Sc. Lond. and Bris.,  
LL.D. Wales and Bris.

PRESIDENT OF THE COUNCIL—Sir GEORGE R. MOWBRAY, Bart., B.A. Ox.

TREASURER—A. P. SHAW, J.P.

REGISTRAR—E. SMITH, B.Litt. Ox., M.A., B.Sc. Liv.

LIBRARIAN—S. A. PEYTON, Ph.D.

BURSAR—E. B. MORGAN, B.A., B.A.I. Dub.

Telephone : Registrar—Reading 4422.

## TEACHING STAFF

*Agriculture, etc., v. infra*

*Art* (School of Art)

Betts, J. A., A.R.C.A.

Lectr. in Charge.

Lecturers :

Pearce, C. C., R.B.A. (Design and  
Composition).

Yates, H. J. (Drawing and Paint-  
ing).

Carter, A. C., A.R.B.S. (Modelling  
and Sculpture).

Ormrod, F. (Design).

Gibbings, R. (Typog., etc.).

Sessional Lecturers :

Bayes, R. W. S. (Drawing and  
Painting).

Page, R., A.I.L.A. (Archit.).

Bayford, Valerie E. (Embroidery,  
etc.).

1 Teacher.

*Biochemistry, v. Agr.*

*Botany, v. also Agr.*

Harris, T. M., M.A., Ph.D. Camb.,  
B.Sc. Lond. Prof.

Gillespie, J., B.Sc. Glas. Lectr.

Prankerdt, Theodora L., D.Sc.  
Lond., F.L.S. Lectr.

*Chemistry, v. also Agr.* [Prof.

Bassett, H., D.Sc. Lond., Ph.D.

Mun., D. ès Sc. Nancy, F.I.C.

Maxted, D. R., B.Sc. Lond.,  
A.R.C.S. Lectr.

Mills, A. K., B.Sc., Ph.D. St. And.  
Lectr.

Wynne-Jones, W. F. K., B.Sc. Ox.  
and Wales Lectr.

Durrant, R. G., M.A. Ox.  
Hon. Research Fellow.

*Classics*

Ure, P. N., M.A. Camb. Prof.

Dudley, D. R., M.A. Camb.  
(Latin) Lectr.

Fisher, W. H., M.A. Camb. Lectr.

Cormack, J. M. R., B.A. Camb.,  
M.A. Aberd. Latin Lectr.

Ure, Mrs. A. D., B.A. Lond.  
Hon. Research Fellow.

*Commerce*

Taylor, H., F.L.A.A. Lectr.  
McCrimdell, Jane M., M.A. Glas.

Lectr.

1 Asst.

*Dairying, v. infra*

*Domestic Subjects*

Wood, Mrs. E. May  
Lectr. in charge of Dept.

Hall, Iris K. Asst. Lectr.  
 Henry, D. Mildred Asst. Lectr.  
 Priestley, Beatrice A., O.B.E.  
 Asst. Lectr.  
 Smith, Winifred O. Asst. Lectr.  
 1 Sessional Lectr. in Hygiene.

*Economics* [Lectr.  
 Buer, Mabel C., D.Sc. (Econ.) Lond.

*Education*  
 Barnard, H. C., M.A., B.Litt. Ox.,  
 M.A., D.Lit. Lond. Prof.  
 Lecturers :  
 Campbell, Isabella E., M.A., B.Ed.  
 Edin.  
 Glason, J. A., M.B.E., B.A. Lond.,  
 M.A.  
 Mitchell, W. F., B.Litt. Ox., M.A.  
 Edin.  
 Gillett, C. R. E., M.A. Ox.  
 2 Instrs. in Physical Training.

*English Language & Lit.* [Prof.  
 Dewar, R., M.A. Glas. (E. Lit.)  
 Morley, Edith J., M.A. Ox. (E.  
 Lang.) Prof.  
 Dyson, H. V. D., B.Litt., M.A.  
 Ox. Lectr.  
 Young, Jean I., M.A., Ph.D. Camb.  
 Lectr.

*French* [Prof.  
 Desseignat, J., Ag. de l'U. Paris  
 Lecturers :  
 Bowen, R., D. de U. l'Strasb. B.A.  
 Paton, Dorothea A., M.A. Ox.  
 Salmon, Yvonne M. A., L. ès L.

*Geography* [Lectr.  
 Kimble, G. H. T., M.A. Lond.  
 Miller, A. A., M.Sc. Lond. Lectr.  
 Morris, W. F., B.A. Lond.  
 Sessional Asst. Lectr.

*Geology*  
 Hawkins, H. L., D.Sc. Manc.,  
 F.R.S., F.G.S. Prof.  
 Wager, L. R., B.A. Camb., B.Sc.  
 Lond. Lectr.  
 Walder, Phoebe S., B.Sc. Lond.  
 and Reading.  
 Demr. and Museum Asst.

*German* [Lectr.  
 Matthews, Evelyn, M.A. Wales  
 Asst.  
 Paulsen, W., Ph.D. Berne.

*History, Modern*  
 Stenton, F. M., M.A., D.Litt. Ox.,  
 F.B.A. Prof.  
 Childs, W. M., M.A., D.Litt. Ox.,  
 LL.D. Liv. Hon. Prof.

Lecturers :  
 Aspinall, A., M.A., Ph.D. Manc.  
 Stenton, Mrs. D. M., B.A. Lond.  
 Peyton, S. A., Ph.D.

*Mathematics*  
 Neville, E. H., M.A. Camb., B.Sc.  
 Lond. Prof.

Lecturers :  
 Ashcroft, Lucy, M.A. Dub.  
 Goodstein, R. L., B.A. Camb.  
 Hargreaves, J., M.A., Ph.D. Camb.  
 Ternouth, Elsie J., M.A. Glas.  
 1 Teacher of Machine Drawing  
 and Applied Mechanics.

*Music* [Visitor of School.  
 Allen, Sir Hugh P., G.C.V.O., M.A.  
 Camb., D.Mus. Ox., Mus.D.  
 Camb., D.Litt. Sheff.  
 Jacques, R., M.A., B.Mus. Ox.,  
 F.R.C.M.

Director and Lectr. in  
 Charge of School.  
 8 Teachers.

*Philosophy* [Prof.  
 Hodges, H. A., M.A., D.Phil. Ox.  
 Budden, E. S., M.A., D.Phil. Ox.  
 Lectr.

*Physics*  
 Crowther, J. A., M.A., Sc.D.  
 Camb., F.Inst.P. Prof.  
 Pearson, R. L. Lectr.  
 Rymer, T. B., B.L. Camb.; Ph.D.  
 Lond. Lectr.  
 White, P., M.A., Ph.D. Camb. Lectr.

*Psychology* [Lectr.  
 Wolters, A. W. P., M.A. Lond.  
 Oldham, Mrs. H. W., B.Sc. Lond.,  
 M.A., Ph.D. Lectr.

*Spanish* [Sessional Teacher.  
Edwards, P. C., M.A. Camb.

*Vet. Hygiene, v. Agric.*

*Zoology*

Cole, F. J., D.Sc. Ox., F.R.S. Prof.  
Eales, Nellie B., D.Sc. Lond. Lectr.  
Crichton, M. I., B.Sc. Edin.

Asst. Lectr.

Stoneman, W. E., M.A. Camb.  
Museum Asst.

**Agriculture and Horticulture**

*Agriculture*

Rae, R., B.Agr. Belf. Prof.  
Black, D. J. G., B.Sc. (Agric.).  
Edin. Lectr.

Campbell, K. W. D., B.Sc. Durh.,  
M.Sc. Lectr.

Soper, M. H. R., B.A. Camb.  
Asst. Lectr.

*Agr. Bacteriology, v. also Dairy B.*

Allen, L. A., B.Sc., Ph.D. Lond.,  
M.Sc. Lectr.

Appleby, Jessie C., B.Sc. Lond.  
Asst. Lectr.

*Agr. Botany* [Prof.

Brierley, W. B., D.Sc. Manc., F.L.S.  
Erith, Adela G., B.Sc., Ph.D.  
Lond. Lectr.

Waldie, J. S. L., B.Sc. Edin. Lectr.  
Thomson, J. R., B.Sc. Edin.

Asst. Lectr.

1 Asst.

*Agricultural Chemistry*

Neville, H. A. D., M.A. Camb.,  
B.Sc. Lond., F.I.C. Prof.

Bee, J. W., M.A. Camb. Lectr.  
Nicholson, M. N., B.Sc. Glas., A.I.C.

Lectr. and Advisory Officer.

Rowland, S. J., B.Sc. (Agric.),  
Ph.D., F.I.C. Lectr.

Grimbleby, F. H., B.Sc. Leeds  
Asst. Lectr.

Thompson, J., Ph.D. Heid., F.I.C.  
Analyst.

Kay, Frances F., B.Sc. (Hortic.),  
Ph.D. Research Asst.

1 Asst.

*Agric. Economics*

Thomas, E., B.Litt. Ox., B.Sc. Wales  
Lectr. and Advisory Officer.

Bisset, G. B., B.Sc. Aberd.,  
M.Sc. Cornell Asst. Lectr.

*Biochemistry*

Kay, H. D., O.B.E., Ph.D. Camb.,  
D.Sc. Manc. Research Prof.

1 Asst.

*Building Construction, etc.*

Hitchins, W. W., L.R.I.B.A.,  
P.A.S.I. Lectr.

1 Asst.

*Dairying*

Todd, A. Lectr.

1 Instr., 1 Asst. Instr.

*Dairy Bacteriology*

Mattick, A. T. R., B.Sc., Ph.D.  
Lond. Lectr.

Maddock, E. C. G., C.I.E., M.D.,  
Ch.B. Edin., D.P.H. Camb.,  
D.T.M. Liv.

Hon. Research Fellow.

1 Adviser and 2 Assts.

*Dairy Chemistry*

Blair, G. W. Scott, M.A. Ox.,  
Ph.D. Lond., A.I.C.

Research Chemist.

Assts. for Research :

Davies, W. L., Ph.D. Camb., M.Sc.  
Wales, N.D.A., F.I.C.

Kon, S. K., Ph.D. Warsaw, D.Sc.  
Mattick, Mrs. E. C. V., M.Sc.,  
Ph.D. Bris.

Kon, Mrs. Phyllis M., Ph.D.,  
M.R.C.V.S.

Hon. Research Asst.

*Dairy Husbandry*

Mackintosh, J., O.B.E., N.D.A.,  
N.D.D.

Head of Research Section  
and Lectr.

1 Asst.

<i>Economic Entomology</i>	<i>Machinery</i>	
Hodson, W. E. H., A.R.C.S., D.I.C.	.....	[Lectr.
Lectr.	<i>Veterinary Hygiene</i>	
<i>Economic Mycologist</i>	Male, G. P., M.R.C.V.S.	Lectr.
Buddin, W., M.A. Camb.	<i>Veterinary Science</i>	
<i>Horticulture</i>	Barron, N. S., B.Sc. Lond.,	
Stoughton, R. H., D.Sc. Lond.,	M.R.C.V.S.	
A.R.C.S.	Vet. Surgeon and Advis-	
Cobb, A. J.	ory Officer.	
Senr. Lectr.		
Cook, H. H.		
Lectr.		
Hole, Doris R., B.Sc. Lond.	University Extension	
Lectr.		
1 Instructor.	Tutors, 3.	

BRITISH DAIRY INSTITUTE (occupying a building on the University site and controlled by a committee representing the British Dairy Farmers' Assocn. and the University). Lecturer in Dairying—A. Todd. 1 Instr., 1 Asst. Instr.

THE NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING, Shinfield, near Reading, established by the Ministry of Agric. and Fisheries in 1912, forms part of the Univ. (Director—H. D. Kay, O.B.E., Ph.D.Camb., D.Sc. Manc.). It is governed by a Board consisting of representatives of the Ministries of Agric. and Health, R.A.S. of England, British Dairy Farmers' Assocn., Nat. Farmers' Union, etc. It has five Depts.—Dairy Bacteriology, Dairy Chemistry, Dairy Husbandry, Physiology, and Dairying. *See also* App. III. A. I. (d).

## GENERAL INFORMATION

The University was established by Royal Charter, March 17, 1926. For early history, see *Yearbook* for 1929.

LIBRARY, 65,000 vols., including Overstone collection (7500 vols.) of books on Polit. Econ. (pubd. before 1850), English and French thought during eighteenth century, and topography (especially Northamptonshire); 18,300 pamphlets. 300 periodicals are received. MUSEUMS: Zool. and Hist. and Archæol. LABORATORIES: Bacteriol., Bot., Chem., Geol., Mech., Physics, Psych., Zool. Fine Art Studios. School of Music. Agricultural Machinery Hall. Two farms (359 and 380 acres) and Horticultural Station.

FACULTIES: (1) Letters, (2) Science, (3) Agric. and Horticulture (associated with which are the National Inst. for Research in Dairying and British Dairy Inst.).

DEANS: (1) Prof. R. Dewar (Eng. Lit.); (2) Prof. H. L. Hawkins (Geol.); (3) Prof. H. A. D. Neville (Agr. Chem.).

SCHOOLS: Art, Music.

DEPARTMENT: Domestic subjects.

ADMISSION. *See* Appendix I. Entrance examn. for Diploma courses in Commerce, Agric., Dairying, Hortic., Landscape Architecture, Domestic subjects.

DEGREES. B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; B.Sc. (Agric.), B.Sc. (Dairying), B.Sc. (Hortic.); Ph.D. The M.Sc. and D.Sc. are obtainable in the Faculty of Agriculture and Horticulture as well as in the Faculty of Science. The Senate may decline to admit to a degree course a person whose



place of residence during term is at too great a distance from Reading, and the degree of Bachelor may not be granted to a candidate whose record as a student of the University is not deemed satisfactory.

The Charter provides that degrees representing proficiency in technical subjects shall not be conferred without proper security for testing the scientific or general knowledge underlying technical attainments.

An oral examination forms part of the Final examn. for a B.A. degree with honours, except in Mathematics, and, at the discretion of the Examiners, may form part of the Intermediate or of the Final Examn. for a Pass B.A. degree, or of the Intermediate or Final Examn. for the B.Sc. In the Final Examn. for the B.Sc. candidates are examined upon either a general course of study (3 subjects) or a special course; honours can be obtained in either case. The Final Examn. (Special) is ordinarily taken after passing the Final Examn. (General). The course for the degree with honours extends over 4 years in Agriculture and in certain cases in Arts and in Science.

UNIVERSITY DIPLOMA COURSES are as follows: 1 yr. (post-grad.)—General Bacteriol., Education. 2 yrs.—Agric., Commerce, Dairying, Domestic subjects, Hortic. 3 yrs.—Landscape Architecture, Fine Art, Music, and for Diplomas with distinction in Agric., Dairying, Domestic subjects, or Hortic.

OTHER COURSES for Univ. Certifs., Agric., Poultry Husbandry, Commerce, Domestic subjects, Hortic. (1 yr.); Secretarial subjects (1 yr. post-graduates); Jewellery and Enamelling, Wood Carving, Woodwork, Embroidery, Leather Work, Writing and Illuminating (2 yrs.); British Dairy Farmers' Assn. exams. (6 months.); L.R.A.M., A.R.C.M., etc.

TUTORIAL SUPERVISION. Every student following one of the organized day courses or a specially arranged day course involving frequent attendance at the Univ. for at least 2 terms is placed under the supervision of a tutor.

A RESEARCH BOARD promotes research and original work in the Univ. (apart from the National Institute for Research in Dairying). It administers funds entrusted to it for the purpose, and issues an annual record and report.

TERMS. 3, each of 10 weeks, the first beginning on the first Friday in October. Vacations of 4 weeks at Christmas and 5 weeks at Easter.

RESIDENCE. All students following full courses of day study, unless residing with parents or guardians, are ordinarily required to reside in a University Hall of Residence. There are two Halls for men, Wantage (Warden: J. B. Passmore, M.C., M.Sc.), St. Patrick's (Warden: R. L. Pearson), and four for women, St. Andrew's (Warden: Dorothy Mack Smith, B.Sc.), Wessex; (Warden: Evelyn M. Wiseman, M.A.), St. George's and Ashdown (Warden: Isobel A. Turner, M.B.E., B.Sc.). Full-time day students living in recognized houses, or at home in or near Reading, are associated in St. David's Hall, a non-residential club. For Expenses, v. *infra*.

SCHOLARSHIPS OPEN TO GRADUATES. Offered annually by the Univ.—£100; "Ernest Ridley"—£50 plus tuition fees, for one year, renewable for a second year.

FEEs. For Tuition: Ph.D. course—£5 or £7 p.a.; M.A. course—£5 p.a.; M.Sc. course—£7 p.a.; Bachelor's Degree course—Arts, £30 p.a.; Sc. or Agric. or Dairying or Hortic., £35 p.a.; Diploma course—Commerce, £25 p.a.; Agric. or Hortic. or Landscape Architecture or Domestic subjects, £30 p.a.; Dairying, £35 for 1st, £41 for 2nd year; General Bacteriol. (post-grad.), £35 p.a.; Fine Arts, £21; Certif. courses—£21 to £30. Tuition fees are in most cases reduced by 25 per cent to students from neighbouring counties, under certain conditions.

**EXPENSES.** Total average necessary yearly expenses (excluding travelling, clothing, and personal laundry) about £120 p.a., namely: (i.) Registration, matriculation, cap and gown, tuition, examination, and graduation, average £38 p.a. for a degree student; for diploma or certificate student somewhat less. (ii.) Maintenance, including board and lodging in Halls or lodgings and sanatorium fee, maximum for 30 weeks about £77 for a man and £69 for a woman student. (iii.) Personal, including subscription to Union (3 gs. p.a.), and cost of books and stationery, widely variable, say £6 p.a.

Courses of lectures open to the public are ordinarily charged for at 15s. per term (30s. per session) for each subject (one hour per week).

**APPOINTMENTS.** The Registrar.

**STUDENT ORGANIZATIONS.** Students' Union and Representative Council. An Old Students' Association meets annually at the Univ. at Whitsuntide.

**UNIVERSITY EXTENSION, ETC.** Agriculturists are helped by correspondence, visits, local lectures, examination of diseased plants, etc. Evening classes are held in Mech. Engineering, Building, and most of the subjects in which Day courses are provided. Tutorial classes are held in connexion with the W.E.A.

**PUBLICATIONS.** *Calendar* (Sept.), 2s.; *University Gazette*; General Prospectus (including illustrations and plans); Departmental Prospectuses (Degree courses, Education, Commerce and Secretarial, Agriculture, etc., Fine Arts and Handicrafts, Music, Domestic subjects); Scholarships and Studentships; Guide to Evening Classes, 2d.

## THE YEAR 1936-37

**BENEFACTIONS.** Donations amounting to £9881 received towards fund for proposed new Hall of Residence for Women Students.

**NEW POSTS.** Asst. Lectr. in Zoology. Asst. Lectr. in Agricultural Chemistry. Asst. in German.

**CHANGES IN REGULATIONS.** Additions to Regulations for Matriculation.

**EXTRA-MURAL WORK.** Two three-year Tutorial Classes. One University Extension Course.

**RETIREMENTS.** J. Golding, Research Chemist and Head of Dairy Chemistry at National Institute for Research in Dairying. P. R. Scrivener (Music).

**RESIGNATIONS.** Prof. F. A. Cavenagh (Education), on appointment as Prof. of Education, King's College, London; Dr. W. H. Semple (Latin), on appointment as Hulme Prof. of Latin, Univ. of Manchester; Dr. W. K. Stanton (Lectr. in Charge of School of Music), on appointment as Director of Music, Midland Region of B.B.C.; Dr. C. T. Ingold (Botany), on appointment as Lectr. in Charge of Dept. of Botany, University Coll., Leicester; D. M. Balme (Classics), on appointment as Research Fellow at Clare College, Cambridge; W. Probert-Jones (Music), on appointment as Director of Music in Bedford School; O. Appleby (Univ. Accountant), on appointment as Accountant to Birmingham United Hospital. G. A. Jellicoe (Architecture). Miss Joyce B. Lansdell, Asst. Librarian.

**DEATHS.** The Rt. Hon. Sir Austen Chamberlain, Chancellor. Dr. W. N. Bond (Physics).

**HONORARY DEGREE.** *M.A.*—Robert J. Patten, President, National Union of Teachers.

**STUDENTS.** Full-time, 696, including 69 graduates. Part-time, 724, including 7 graduates.

**DEGREES.** B.A., 30; M.A., 2; B.Sc., 33; B.Sc. (Agric.), 14; B.Sc. (Dairying), 8; B.Sc. (Hortic.), 11; M.Sc., 7; Ph.D., 2.

# THE UNIVERSITY OF SHEFFIELD

Founded 1905

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Hon. the MARQUESS OF CREWE, K.G., D.C.L., LL.D.

PRO-CHANCELLORS—Lt.-Col. SIR HENRY K. STEPHENSON, Bart., D.S.O., LL.D., D.L., J.P. ; J. H. DONCASTER, M.A. Camb., J.P.

VICE-CHANCELLOR—A. W. PICKARD-CAMBRIDGE, M.A., D.Litt. Ox., LL.D. Edin., F.B.A. (to 30.9.38).

TREASURER—S. OSBORN, LL.D., J.P.

REGISTRAR—W. M. GIBBONS, O.B.E., M.A., F.C.I.S.

LIBRARIAN—A. P. HUNT, B.A.

Telephone : Registrar—Sheffield 20305.

## TEACHING STAFF

- |   |                   |   |
|---|-------------------|---|
| <i>Anatomy</i>  | [A. Jackson Prof. | Grainger, B. M., A.R.C.A.   |
| Davies, F., D.Sc., M.D., B.S.   |                   | (Freehand Drawing and Colour) Hon. Instr.   |
| Lond., M.R.C.S., L.R.C.P.   |                   |   |
| Naish, Mrs. Lucy, M.B. Lond.  |                   | <i>Art</i> , v. Civic Art   |
| (Osteology)   | Lectr.            | <i>Biology</i> , v. Botany and Zool.  |
| MacConaill, M. A., M.Sc., M.B., B.Ch., B.A.O. Belfast.                              |                   | <i>Botany</i> [Prof.  |
| Lectr. and Senr. Demr.  |                   | Bentley, B. H., M.A. Ox., F.L.S. (to 30.9.38).  |
| Anderson, J. C., M.B., Ch.B. St. And., F.R.C.S. (Surg. A.)                          |                   | Lind, Edna M., B.Sc., Ph.D. Liv. Lectr.   |
| Lectr. and Demr.  |                   | Boswell, J. G., M.Sc. Lond. Lectr.  |
| Mackie, E. G., M.A., M.B., Ch.B. St. And., F.R.F.P.S. Glas., D.O.M.S. (Ophthal. A.) |                   | Philip, Judith M., M.Sc., Ph.D. Hon. Demr.  |
| Lectr.  |                   | <i>Chemistry</i>  |
| Patrick, L. B., M.B., Ch.B., F.R.C.S.E., M.C.O.G. (Gynaecol. A.)                    |                   | Bennett, G. M., M.A., Sc.D. Camb., B.A., Ph.D. Lond., F.I.C. (to 30.9.38) Firth Prof. |
| Lectr.  |                   | Lectrs. :   |
| Rees, W. Skyrme, M.B., Ch.B. Birm.  |                   | Glasstone, S., Ph.D., D.Sc. Lond., F.I.C. (Phys. C.)                                  |
| Cameron, D., M.B., Ch.B. Glas. Hon. Demr.   |                   | Chapman, A. W., D.Sc. Lond., F.I.C. (Organic C.)                                      |
| <i>Architecture</i>   |                   | Smith, T. B., B.Sc., Ph.D. Lond.  |
| Welsh, S., M.A., B.Arch. Liv., F.R.I.B.A.   |                   | Turner, Emily G., M.Sc.   |
| Lectr.  |                   | Speakman, J. C., M.Sc., Ph.D.   |
| Leighton, H. B., M.A., F.R.I.B.A.   |                   | Jones, B., B.Sc. Wales, Ph.D. Camb. and Wales.  |
| Asst. Lectr.  |                   | Ritchie, M., Ph.D., D.Sc. Edin.   |
| Paterson, D. S., Dip. Arch. Glas., A.R.I.B.A.                                       |                   | Asst. Lectr.  |

- Civic Art*  
 ..... Prof. Holdsworth, F., M.A., D. de l'U.  
 Paris Lectr.  
 Elcock, W. D., M.A. Manc., L. ès L.  
 Lectr.
- Classics*  
 Forster, E. S., M.B.E., M.A. Ox.,  
 F.S.A. (Greek) Prof.  
 Craig, J. D., B.A. Ox., M.A.,  
 D.Litt. St. And.  
 (Latin) Firth Prof.  
 Maguinness, W. S., M.A. Dub.  
 Lectr.  
 Laughton, E., B.A. Ox.  
 Asst. Lectr.
- Dentistry, v. infra*
- Economics*  
 Knoop, D., M.A. Manc. Prof.  
 Jones, G. P., M.A. Liv.  
 (Econ. Hist.) Lectr.  
 Pool, A. G., B.Sc. (Econ.) Lond.  
 Lectr.
- Education*  
 Turnbull, G. H., M.A. Liv., Ph.D.  
 Bonn. Prof.  
 Lectrs. :  
 Bradford, E. J. G., M.Sc. Lond.  
 King, Etheldreda M.A., B.A. Lond.  
 Thompson, J. Ridley, M.C., D.Sc.  
 Durh.  
 Maguinness, Olive D., M.Sc., D. ès  
 Sc. Montpellier.  
 Halloran, J. H., M.A. Leeds.  
 Tempest, N. R., M.A. Liv., M.Ed.  
 Harv. Asst. Lectr.
- Engineering, v. infra*
- English Lang. and Lit.*  
 Bullough, G., M.A. Manc.  
 (Eng. Lit.) Prof.  
 Jones, J. D., B.A. Lond., Ph.D.  
 Berl., M.A.  
 (Eng. Lang.) Lectr.  
 Hamer, D., M.C., M.A. Liv. (Eng.  
 Lit.) Lectr.  
 Reynolds, W. V., M.A., B.Litt. Ox.  
 (Eng. Lit.) Lectr.
- French*  
 Clapton, G. T., M.A. Prof.
- Fuel Technology, v. infra* Engin.
- Geography*  
 Brown, R. N. Rudmose, D.Sc.  
 Aberd. Prof.  
 Garnett, Alice, B.A. Lond. Lectr.  
 Watson, J. W., M.A. Edin.  
 Asst. Lectr.
- Geology*  
 Fearnside, W. G., M.A. Camb.,  
 F.R.S. Sorby Prof.  
 Wilcockson, W. H., M.A. Camb.  
 Lectr.  
 Shirley, J., M.Sc. Manc. Lectr.
- German*  
 Dunstan, A. C., B.A. Lond., Ph.D.  
 Königsb. Lectr.  
 Baier, C., B.A. Liv., Ph.D. Tübingen  
 Asst. Lectr.
- Glass Technology, v. infra* Engin.
- History*  
 Woodward, A. M., M.A. Ox., F.S.A.  
 (Ancient H.) Lectr.  
 Potter, G. R., M.A., Ph.D. Camb.  
 (Mod. H.) Prof.  
 Lewis, N. B., M.A., Ph.D. Manc.  
 (Medieval H.) Lectr.  
 Tyler, J. E., B.A. Ox., M.A.  
 (Modern H.) Lectr.
- Law*  
 Browne, D., M.A. Ox. Prof.  
 Metcalfe, O. K., M.A., LL.M. (Pub.  
 and Com. L.) Lectr.  
 Renwick, J., M.A., LL.B. Camb.  
 (Real Prop. and Conveyg.)  
 Lectr.  
 Smith, W. Mackenzie, D.S.O., T.D.  
 (Income Tax L.) Lectr.  
 Schofield, A. N., LL.M. (Local  
 Govt. L.) Lectr.

Connell, A. H., B.A., LL.B. Camb.  
Asst. Lectr.

Downing, F., F.C.A.  
(Trust Accounts, etc.) Tutor.

*Mathematics*

Daniell, P. J., M.A., Sc.D. Camb.  
Town Trust Prof.

Lectrs. :

Stewart, C. A., B.A. Camb., M.A.,  
D.Sc. Glas. (Geom.).

Cox, R. R. S., M.A. Camb.  
(Dynamics) and Curator  
of Observatory.

Rado, R., Ph.D. Camb. and Berlin  
Asst. Lectr.

Baber, T. D. H., M.Sc. Brist.  
(Engin. Maths.) Asst. Lectr.

Goodwin, E. T., B.Sc. Camb.  
Asst. Lectr.

*Medicine, v. infra*

*Metallurgy, v. infra*

*Mining, v. Engin., infra*

*Music*

Shera, F. H., M.A., Mus.M. Camb.,  
F.R.C.O., A.R.C.M.

James Rossiter Hoyle Prof.  
Grant, Willis, D.Mus. Durh.,  
F.R.C.O., A.R.C.M.

Asst. Lectr.

*Philosophy*

Laing, B. M., M.C., M.A., D.Litt.  
Aberd. Lectr.

*Physics*

Milner, S. R., D.Sc. Lond. and  
Bris., F.R.S., F.I.P. Prof.

Lectrs. :

Lawson, R. W., D.Sc. Durh., F.I.P.  
Clarke, J. R., M.Sc., F.I.P.

Evans, Morgan H., B.Sc. Wales.

.....

Elliott, A., B.Sc., Ph.D. Durh.,  
D.Sc. Utrecht.

*Physiology*

Clark, G. A., M.D. Durh. Prof.

Eaves, Eliz. C., B.Sc., M.D., B.S.,  
D.P.M. Lond. Lectr.

Imrie, C. G., M.D. Westn. Ont.,  
F.R.C.P. Lectr.

Winter, L. B., M.A., M.D. Camb.  
Lectr.

Mellanby, Lady May, Girton Coll.  
Camb., D.Sc. Sheff. and Liv.

Hon. Lectr.

Gaunt, R. T., M.Sc., M.B., Ch.B.  
Demr.

*Public Health, v. Medicine infra*

*Russian*

Birkett, G. A., M.A. Liv. Lectr.

*Spanish* [Hughes Lectr.

Sarmiento, E., B.A., Ph.D. Lond.  
de Fenn, Beatriz, L. ès L.

Asst. Lectr.

*Zoology*

Eastham, L. E. S., M.A. Camb.,  
M.Sc. Leeds Prof. and

Hon. Curator of Museum.

Francis, E. T. B., B.Sc. Lond.,  
Ph.D. Reading. Lectr.

Smith, J. E., B.Sc., Ph.D. Lond.  
Lectr.

Mellanby, K., B.A. Camb., Ph.D.  
Lond. Hon. Lectr.

Mellanby, Mrs. Helen, B.Sc.,  
Ph.D. Lond. Hon. Res. Asst.

*Engineering*

v. also Maths. *supra*

Swift, H. W., M.A. Camb., D.Sc.  
(Eng.) Lond., M.I.Mech.E.

Prof. of Engineering

Payne, G., B.Eng.  
Research Asst. to Prof.

*Engineering, Civil*

Lectrs. :

Boulton, N. S., M.Sc. Birm. (in  
charge of Dept.)

Snelgrove, E. C., M. French Soc.  
C.E., M.I.Struct.E.

Morgan, T. L., B.Sc. Wales.

Jenkins, R. B. M., B.A. Camb.  
Asst. Lectr.

*Engineering, Electrical*

Lectrs. :

Wall, T. F., D.Sc. Vict., D.Eng.  
 Liv., M.I.E.E. (in charge of  
 Dept.)

Hainsworth, C. H., M.Eng.  
 Joyce, T. C., B.Sc. Lond. & Brist.  
 Milner, W. S., M.Eng., Dipl. Ing.  
 Zürich

Harrison, D., B.Eng. Liv.  
 Asst. Lectr.

Lloyd, H., M.Eng., Ph.D.  
 (Wireless Telegraphy) Demr.

*Engineering, Mechanical*

Lectrs. :

Turner, F. C., M.Eng.  
 Davies, H. J., M.Sc. Lond.  
 Burnet, W., B.Eng.  
 Parker, C. F., B.Sc. Lond.  
 Dick, J., Ph.D., B.Sc. Glas.  
 Bellamy, R. G., M.Eng.  
 Shaw, M., M.Eng. Asst. Lectr.

*Fuel Technology*

Wheeler, R. V., D.Sc. Manc.,  
 F.I.C., M.I.M.E. Prof.  
 Batley, W. A., M.Sc. Manc. Lectr.  
 Kirkby, W. A., M.Sc., Ph.D.  
 Manc., F.I.C. Lectr.  
 Beet, A. E., B.Met. Demr.  
 Mott, R. A., D.Sc. Leeds, F.I.C.  
 Research Asst.  
 Harwood, J., M.Sc. Manc.  
 Research Asst.

*Glass Technology*

Turner, W. E. S., O.B.E., M.Sc.  
 Birm., D.Sc. Lond., F.I.P. Prof.  
 Parkin, M., M.Sc., A.I.C. Lectr.  
 Seddon, E., B.Sc., Ph.D. Leeds.  
 Lectr.

Senr. Research Asst.

Dimbleby, Violet, M.Sc.

Research Assts. :

Preston, E., B.Sc. Birm., Ph.D.  
 Holland, A. J., M.Sc. Lond., D.I.C.  
 Nichols, N. A., M.Sc. Tech.,  
 M.Eng.

West-Oram, F. G., B.Sc. Tech.  
 Junr. Res. Asst.

1 Research Fellow.

*Mining Engineering*

Hay, D., B.Sc. Lond., M.I.C.E.,  
 M.I.M.E. Hon. Prof.

Statham, I. C. F., M.Eng.,  
 M.I.M.E., F.G.S. Prof.

Bevan, E., M.Sc. (Min.) Lond.,  
 M.I.M.E.

(Mine Surveying) Lectr.  
 Collins, H. E., M.Eng., M.I.Min.E.  
 Lectr.

Shirley, J., M.Sc. Manc.  
 (Mining Geol.) Lectr.

Wright, A., M.Eng.  
 Research Asst.

*Metallurgy*

Andrew, J. H., D.Sc. Manc. Prof.  
 Maddocks, W. R., B.Sc. Wales,  
 Ph.D. Glas. (Ferrous) Lectr.  
 Orme, F., M.Met., A.I.C. (also  
 Dental M.)

(Non-Ferrous) Lectr.  
 Rees, W. J., M.Sc. Tech., F.I.C.

(Refractories) Lectr.  
 Percival, R. T., B.Met. (Founding)

(also Dental M.) Lectr.  
 ..... Lectr.

MacDougall, A. J. Lectr.  
 Protheroe, H. T., B.Sc. Wales

Asst. Lectr.  
 Quarrell, A. G., B.Sc., Ph.D.

Lond., A.R.C.S., D.I.C.  
 Asst. Lectr.

Havenhand, D., B.Sc. Asst. Lectr.  
 de Belin, G. A.

Asst. Lectr. & Research  
 Asst.

*Medicine*

(for subjects of first 2 yrs.—Anat.,  
 etc., v. *supra*)

*Anæsthetics*

Pleasant, R. E., M.D., D.A.  
 Lectr.

17 other Instructors.

*Bacteriology*

Edington, J. W., M.D., D.P.H.  
 Edin. Prof.

Croll, J. MacA., M.B., Ch.B.,  
D.P.H. Aberd. Lectr.  
Paine, C. G., M.D., B.S. Lond.  
Lectr.  
Pownall, Margaret, M.B., Ch.B.,  
D.P.H. Manc.

Asst. Bacteriologist.

Spink, M. S., M.D. Camb.,  
M.R.C.S., L.R.C.P.

Jr. Asst. Bacteriologist.

Kirk, Florence S., M.B., Ch.B.  
Glas., D.P.H. Camb. Demr.

Hermitte, L. C. D., M.B., Ch.B.  
Edin. Demr.

Barrie, H. J., B.M., B.Ch. Ox.  
Demr.

### *Dermatology*

Hallam, A. R., M.D., Ch.B. Edin.,  
M.R.C.P. Lectr.

### *Diseases of Children*

Bremner, A., M.C., M.D., Ch.B.,  
D.T.M. & H., D.P.H. Edin.

Lectr.

2 other Clin. Teachers.

### *Dis. of Ear, Nose, and Throat*

Townrow, V., M.B., B.S. Lond.,  
F.R.C.S. Lectr.

Cobb, J. H., M.B., B.S. Lond.,  
M.B., Ch.B., F.R.C.S. Eng.  
and Ed. (Aural Anat.) Lectr.

### *Forensic Medicine*

Forbes, G., B.Sc., M.B., Ch.B.  
Glas., F.R.C.S.E., F.R.F.P.S.  
Glas. Lectr.

### *History of Medicine*

Wilkinson, G., B.A., M.B., B.Ch.  
Camb., F.R.C.S. Lectr.

### *Infectious Diseases*

Kennedy, J. M., M.B., B.Ch.,  
B.A.O. Belf., D.P.H. Lectr.

### *Medicine*

Barnes, A. E., M.B. Lond., M.B.,  
Ch.B., F.R.C.P. Prof.

Yates, A. G., M.A., M.D., Ch.B.  
Edin., F.R.C.P. Lectr.

Skinner, E. F., M.A., M.D., B.Ch.  
Camb., F.R.C.P. Lectr.

Imrie, C. G., M.D. Westn. Ont.,  
F.R.C.P. Lectr.

Platt, R., M.D., F.R.C.P. Lectr.  
Gumpert, T. E., M.B., Ch.B.,  
M.R.C.P. Tutor.

Brody, H. P., M.R.C.P., M.R.C.S.  
Tutor.

### *Mental Diseases*

Pool, A., M.B., Ch.B. Liv.,  
M.R.C.P., D.P.M. Lectr.

Skinner, E. F., M.A., M.D., B.Ch.  
Camb., F.R.C.P. (Psychol.).  
Lectr.

Schneider, F. E. E., M.D. Lond.,  
M.R.C.S., L.R.C.P., D.P.M.

Asst. Lectr.

### *Obstetrics and Gynaecology*

Chisholm, J., M.B., Ch.B. Edin.,  
F.R.C.S. Ed., F.C.O.G. Prof.

Stacey, J. E., M.D., B.S. Lond.,  
M.B., Ch.B., F.R.C.S. Edin.,  
F.C.O.G. Lectr.

Davies, Glyn A., M.B., Ch.B. Ed.,  
F.R.C.S. Edin., M.C.O.G.

Lectr.

Macdonald, C. R., M.B., Ch.B.  
Edin., F.R.C.S. Edin.,  
M.C.O.G. Tutor.

Clancy, W. J., M.B., B.Ch.,  
B.A.O.N.U.I. Demr.

1 other Clin. Teacher.

### *Ophthalmology*

Ferguson, W. J. W., M.B., Ch.B.  
Glas. Lectr.

3 other Clin. Teachers.

### *Pathology*

Green, H. N., M.A. Camb., M.Sc.,  
M.D. Joseph Hunter Prof.

Fawcett, A. W., M.B., Ch.B. Edin.,  
F.R.C.S. (Surg. P.)

Lectr. and Asst. Curator  
of Museum.

Harding, H. E., B.A., D.M., B.Ch.  
Ox.

Lectr. and Demr. and  
Curator of Museum.

Kirk, Florence S., M.B., Ch.B.  
Glas., D.P.H. Camb. Demr.

Hermitte, L. C. D., M.B., Ch.B.  
Edin. Demr.  
Barrie, H. J., B.M., B.Ch. Ox.  
Demr.

1 Research Asst.

### *Pharmacology*

Wayne, E. J., M.Sc., Ph.D., M.B.,  
Ch.B. Leeds, F.R.C.P. Prof.  
Krebs, H. A., M.A. Camb., M.D.  
Hamburg Lectr.

### *Public Health*

Rennie, J., M.D. Aberd., D.P.H.  
Clark, J., M.D., Ch.B. Aberd.,  
D.P.H., F.R.C.P. Lectr.

### *Radiology*

Grout, J. L. A., F.R.C.S. Ed.,  
M.R.C.S., L.R.C.P., D.M.R.E.  
Camb. (Radiological Anat.)  
Lectr.

1 Clin. Teacher.

### *Surgery*

Finch, E. F., M.D., M.S. Lond.,  
F.R.C.S. Prof.  
Wilson, J. B. F., M.S. Lond.,  
F.R.C.S. Lectr.  
Brockman, R. St. L., M.A.,  
M.Ch. Camb., F.R.C.S. Lectr.  
Mouat, T. B., M.D., Ch.M. Edin.,  
F.R.C.S. Lectr.  
Yates, H. Blacow, M.A., M.B.  
Camb., F.R.C.S. Lectr.  
Hynes, W., M.B., Ch.B. Leeds,  
F.R.C.S.

Demr. in Op. Surg. and  
Tutor in Surg.

Lytle, W. J., M.B., B.Ch., B.A.O.  
Belf., F.R.C.S. Tutor.

2 other Clin. Teachers.

### *Tuberculosis*

Turner, H. M., M.D. Manc.,  
D.P.H., M.R.C.P. Lectr.

### *Vaccination*

Chisholm, J., M.B., Ch.B., F.R.C.S  
Ed., F.C.O.G. Lectr

### *Dentistry*

v. also Metallurgy

Roberts, G. L., M.B., Ch.B., B.D.S  
Liv. (D. Surg.) Prof  
Law, W. J., L.D.S. R.C.S. (D  
Anat. and Physiol.) Lectr  
Osborne, J., L.D.S. Birm. (D  
Mech.) Lectr. & Demr  
Waldman, W. H., L.D.S. R.C.S  
(D. Prosthetics) Hon. Lectr  
Hull, J., L.D.S. R.C.S. (Dent  
Surg.) Asst. Lectr  
Watson, C. T., M.D.S., L.D.S  
R.C.S. (Orthod.) Lectr  
Barron, D. C., B.Sc., M.D., Ch.B  
Edin. (Med. for Dent. Stud-  
ents) Lectr  
Mouat, T. B., M.D., Ch.M. Edin.  
F.R.C.S. (Surg. for Dent  
Students) Lectr  
Skerritt, J. H., M.D.S., L.D.S  
R.C.S. (Op. Dent. Surg.)  
Clin. Lectr.  
Adams, J., M.C., M.B., B.Ch.  
Belf. Anæsthetist  
Pleasance, R. E., M.D.  
Anæsthetist.

Heald, H. R., L.D.S.  
(D. Histol.) Demr.

4 other Clin. Dental Teachers.

### *Adult Education*

Tutors: 10 members of the Staff  
and 19 others.

## AFFILIATED INSTITUTIONS

BARNSELY MINING AND TECHNICAL COLLEGE, SCUNTHORPE CENTRAL  
EVENING TECHNICAL SCHOOL, LINCOLN TECHNICAL COLLEGE, AND CHESTER-  
FIELD TECHNICAL COLLEGE. Students proceeding from "Affiliated Institu-  
tions" to the Univ. to take courses for an Honours degree or Associateship  
in the Facs. of Engineering or Metallurgy may receive certain concessions.



## GENERAL INFORMATION

University College, Sheffield, incorporated by Royal Charter in 1897, was in 1905 merged in the University of Sheffield constituted by Royal Charter in that year. The city being an important centre of steel, electro-plate, glass, and other manufacturing industries, and in the heart of an extensive coal-mining area, students of Engineering, Metallurgy, Mining, Fuel Technology, and Glass Technology have exceptional opportunities.

**LIBRARY** (Arts, Pure Science, and Medicine), 147,000 vols. and pamphlets, including collections of books on alchemy and early history of chemistry (J. Spear Parker's), facsimiles of Greek papyri (J. H. Moulton's), literature relating to Polychæte worms (A. T. Watson's), and seventeenth-century tracts, plays, etc. (Sir Chas. Firth's); 556 current periodicals. **LIBRARY** (Applied Science), 8000 vols. and pamphlets. Also Special Glass Technology departmental collection.

**RESEARCH DEPARTMENT LABORATORIES** include: *Engineering* (mech., elec., civ., and mining), with steam, gas and oil power plant, high speed engine indicators, air-compressors, refrigerating plant, hydraulic appliances, testing machines, special apparatus for high temperature and repeated stress testing, the testing of cement and concrete, high-speed steel tool-testing lathe, etc., the workshops are specially equipped for the study of modern methods of precision production; Jonas lab. specially equipped for researches in connexion with all physical tests of materials; special apparatus is in use for research on welded joints, lubrication problems, the flow of metals and balancing. The *Electrical Engineering* Department has excellent facilities for research in heavy current elect. engin., radio communication, and magnetism. Included in the machine labs. are a three-phase commutator motor, a 25 kVA motor-alternator-fly-wheel set specially designed for research, and a 25 horse-power induction motor with Scherbius type phase-advancer. The Edgar Allen Research Laboratory, specially equipped for research on magnetism and allied phenomena, contains a wide variety of measuring instruments and testing appliances, including two high frequency Duddell type oscillographs, a cathode ray oscillograph, and a furnace heated by gas and electricity specially constructed for the investigation of magnetic phenomena for a range of temperatures up to about 1200° C. Means are also available for magnetic testing in very strong fields and in particular for the observation of magnetostriction effects as applied to the testing of the quality of steel. Apparatus for the testing for mechanical flaws and for fatigue of colliery and other wire ropes is also part of the equipment of this lab.; *Civil Engineering*, lab. facilities for investigation of properties and behaviour of materials of construction; models of civ. engin. structures and a wide range of surveying instruments and apparatus relating to topographical, cadastral, astronomical, and hydrographic surveys, including a 36-inch tunnel transit. Practical field classes are held during the Easter vacation; *Mining*, research labs., specially equipped for the study of mine safety and general problems including: machine mining, preparation of coal for the market (sizing, wet and dry cleaning), treatment of ores, mine lighting and gas testing, the use of electricity in mines, mine ventilation, mine surveying and mining subsidence, and for the conduct of researches on practical problems arising in the coalfield; practical field classes in Mine Surveying and Geology held each session. *Metallurgical*, with plant for experimental melting of steel, including  $\frac{1}{2}$ -ton electric arc furnace, Ajax-Northrup high-frequency induction furnace, crucible steel-melting house, cupola for melting iron, and a complete equipment for practical foundry work, laboratory equipped for heat treatment of steels and other metals, and equipment for thermal, dilatometric micrographic, X-ray

electron-diffraction, spectroscopic, and other physical investigations; specially equipped lab. for electro-deposition of metals; lab. with rolling mill draw bench and drawing press for research on cold-working of steel; Non-Ferrous, equipped for the lighter Sheffield trades; *Glass Technology*, electric, gas, and oil-fired furnaces for melting glass in quantities from the minute scale up to 120 lbs.; several research labs. for the physico-chemical, thermal, electrical, mechanical, spectrographic, and general optical properties of glass; *Fuel Technology*, coke-testing apparatus and specially equipped labs. for research on coal, coke, and gaseous explosions.

OBSERVATORY with 6½" equatorial telescope and 2½" transit instrument. HOSPITALS available for clinics include 2 general (840 beds), 3 special (1561 beds), and Mental Hospital (2000 beds).

FACULTIES. (1) Arts, (2) Pure Science, (3) Medicine (including the Dental Dept.), (4) Law, (5) Engineering (Depts. of Mech., Elec., Civ., and Mining E., Fuel Tech., Glass Tech.), and (6) Metallurgy (Ferrous, Non-Ferrous, and Founding). *Deans*: (1) Prof. J. D. Craig (Latin), (2) Prof. R. N. Rudmose Brown (Geog.), (3) Prof. G. A. Clark (Physiol.), (4) Prof. D. Browne (Law), (5) Prof. H. W. Swift (Engin.), (6) Prof. J. H. Andrew (Metall.). There is a Univ. Training Coll. Dept. for Teachers for elementary and secondary schools. *Dept. of Glass Technology*: The Dept. was the first and still remains the best known of the scientific instns. in the world devoted to the study of glass, v. also *supra*. *Faculty of Metallurgy*: The courses in Metallurgy include, in addition to the ordinary subjects of a metallurgical training in Ferrous and Non-Ferrous Metallurgy, special instruction in Foundry Metallurgy and in the use of semi-large scale plant. Post-graduate courses are arranged for graduates in Pure Science or in Metallurgy.

ADMISSION. See Appendix I.

DEGREE COURSES. 3 yrs.—B.A. (with Honours in Archit.—5 yrs., including time spent in an Architect's office), B.Mus., B.Sc., LL.B., B.Met. (3 yrs.' evening courses may under certain conditions be taken by students of 20 yrs. of age in lieu of the 2nd and 3rd yrs.' day courses), B.Eng. ("Sandwich" course 4 yrs.), B.Sc.Tech. ("Sandwich" course 4 yrs.); B.Eng. Honours and B.Sc.Tech. Honours, 3 yrs. after passing Intermed. Examn.; 5½ yrs. (including 3 in the Univ.)—M.B., Ch.B.; 5½ years—B.D.S. Graduates of a Univ. of the U.K. who wish to qualify for special degree of B.A. or B.Sc. with Hons., B.Mus. or LL.B., need, under certain conditions, only attend courses for 2 yrs., if they have pursued a course for 2 yrs. at some approved instn. Graduates of a Univ. of the British Empire who wish to qualify for B.Met., B.Eng., or B.Sc.Tech. with Honours need, under certain conditions, only attend courses for 2 years (for B.Eng. or B.Sc.Tech. pass degree, 1 or 2 yrs.; B.Met. pass degree, 2 yrs.) if they have pursued a course for 2 years at some approved institution.

General Honours B.A. and B.Sc. degrees are conferred (v. p. 7).

Attendance on approved courses at a Univ. or Coll. recognized for the purpose may be accepted as equivalent to such courses in the Univ. The Univs. of Paris, Caen, Besançon, Grenoble, Lyons, Poitiers, Berlin, Heidelberg, Leipzig, Freiburg, Göttingen, Tübingen, Giessen, and Innsbruck have been recognized in the Faculty of Arts, and the Univ. contributes towards expenses of undergraduates spending a term there.

A Secondary Schools Council, including, in addition to members of the Univ. staff, representatives of local education authorities and school staffs, keeps the Univ. in touch with secondary educn.

HIGHER DEGREES. Obtainable by Bachelors of the Univ. of 1 yr.'s stand-

ing—M.A., M.Sc., LL.M., M.Eng., M.Sc. Tech., M.Met.—in each case a candidate must present a thesis approved by the Faculty concerned and, except for LL.M., pass an oral examn. Under certain conditions graduates of other Univs. may become candidates for these degrees. M.D.S. on the results of an examn. written, viva and practical; 3 yrs.' standing—M.D., Ch.M.; 4 yrs.' standing—LL.D.; 5 yrs.' standing—Litt.D., D.Mus., D.Sc., D.Eng., D.Sc.Tech., D.Met.; Ph.D., v. p. 13.

**DIPLOMAS.** Archit., 5 yrs. (including time spent in an Architect's office); Educn. (after graduation), 1 yr. (special facilities for Pedagogical research); Certif. in Biol., 2 yrs.' pt.-time study; Public Administration, 2 yrs.' Evg. study; L.D.S., 4 yrs.; Glass Technology, 3 yrs. (for those with 2 yrs.' practical experience, 2 yrs.); Associateship in Engin., 3 yrs. (Works Pupils and Evening students, 4 yrs.); Associateship in Iron and Steel or Non-Ferrous Met., 3 yrs. (evening students, 4 yrs.); Mining, 3 yrs.' full-time course or 4 yrs.' "Sandwich" course (1st year, full-time at the Univ., Oct. to June inclusive; other years 6 mos. in Colliery and 6 in Univ.; exemption from first yr. obtainable through examn. The Dipl. enables a student to sit for the examn. for a colliery manager's certif. after 5 yrs. and 3 mos. total training, including the time spent in the Univ.). Associateship in Fuel for Evening Students, 4 yrs.

**Certificates,** Architecture (3 yrs.); Works Pupils in Engin. (3 yrs.); Glass Technology (4 yrs., Saturday or Evening Students).

**FEES.** Matricn. £2. Registr. 21s. p.a. Diploma courses (except L.D.S.) or 25s. p.a. Degree courses (except M.B., Ch.B., and B.D.S.). Tuition for degree courses (approximate): B.A. and B.Mus., £26:13:4 p.a.; B.Sc., £35 p.a.; LL.B., 15 gs. p.a.; B.Eng., B.Met., B.Sc.Tech. (Glass or Fuel), £41:10s. p.a.; "Sandwich" course for B.Eng., 4 yrs., £31:5s. p.a.; M.B., Ch.B., £238 for 5½ yrs.' course, including hospil. fees; B.D.S., £250 for 5½ yrs.' course, including Mech. Dent. Examns. Intern. and 1st B.Mus., £2; Final Pass Degree, £2; Final General B.A., £2:10s.; Final Honours, B.Mus. and General B.Sc., £3; M.B., Ch.B., B.D.S., L.D.S., for each of 1st, 2nd, 3rd, and Final examns., £6. Bachelor's Degree fee, £6 (except M.B., Ch.B., £5; B.D.S., £1).

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Sorby Research Fellowship (administered by Royal Society), v. App. II. 17; Ironmongers' Company Research Fellowship and Research Scholarships, v. App. II. 4; Alfred Tongue Scholp., £80 for 1 yr. for research in Engin., Met., or Chem.; George Senior Fellowships, £125 p.a., 2 offered annually for research, one in Engin. and one in Met.; several Robert Styring Research Scholps., £100 p.a. for research in ferrous and non-ferrous metals; Cutler's Company Scholp., £100 p.a. for 2 yrs.; 2 Glass Research Fellowships, £150 p.a.; Mechanics Institute Scholp., £50 p.a. for 1 yr., together with fees for courses taken by the holder, for research in one of the Depts. of the Univ.; Frederick Clifford Scholp., £50 p.a. for 2 yrs., for research in one of the Depts. of the Univ.; Ezra Hounsfield Linley Post-graduate Scholp., £75 to £100 p.a. for 1 yr., for research in Fac. of Engin. or Fac. of Met. or Physics or Chem.; Town Trustees Fellowship, £75 p.a. for 1 yr., for research in one of the Depts. of the Univ.

**Note.** The number and value of Scholarships and Fellowships are liable to reduction in all cases.

**RESIDENCE, ETC.** There are two Halls of Residence for men, Crewe (Warden: A. W. Chapman, D.Sc., F.I.C.), £66 p.a., Stephenson (Warden: Rev. G. J. Inglis, M.A.), £80 p.a., and one for women, University (Warden: Miss D. M. Bennett, M.Sc.), £66 p.a. A list is maintained of Lodgings supervised by a Special Committee; board and lodging cost from 27s. 6d. to

40s. per week. Athletics ground, about 40 acres. The Union Rep. Council takes a leading part in the Social life of the Univ. There is a Students' Union for men and women.

APPOINTMENTS BOARD. Secretary: F. Orme, M.Met.

During the period October 1936–September 1937 38 students were placed by the Board. This number does not include Education students who have obtained teaching posts nor students who have obtained posts through the help of the Staffs of the various Departments, without reference to the Board.

There is an OLD STUDENTS' ASSOCN. which publishes periodically lists giving addresses, occupations, honours, etc.

UNIVERSITY EXTENSION work includes Tutorial classes, Free Extension Lectures, Collaboration (for Adult Educn. Lectures) with the Sheff. Educn. Committee.

*Evening Classes* in Mechanical, Civil, and Electrical Engineering, in General Science, Metallurgy, Welding, Fuel, and Glass Technology, Building and Handicraft Instruction in Metal Work are held during the 6 months Oct. to April, and Trades Technical Classes are held in association with the Sheffield Trades Technical Societies. 61 additional lecturers and teachers are employed on this work besides the regular staff. For notes on the extent to which these classes are recognized as qualifying for degrees, etc., v. *supra*—Degrees, Diplomas.

Evening Classes are also provided in French, Russian, Spanish, German, Philos., Econ., Secretarial Practice, Acctcy., Law, Public Admn., Archit. and Chem.

PUBLICATIONS. *Calendar* (Oct.), 5s.; *The Arrows*, a Chronicle pubd. once each term, annual subs., 1s. 6d.; *Annual Report* (Nov.); Fac. and Training Coll. Prospectuses; Scholarships pamphlet.

## THE YEAR 1936–37

BENEFACTIONS. The late Mrs. Blake, legacy of £1000 to found a Scholarship in Music to be known as the Mrs. Stewart Blake Scholarship. A Prize in Clinical Med. founded by the Local Medical and Panel Committee of the West Riding of Yorkshire. Appeal for funds to meet cost of Extensions to the University Buildings, provision of a Men's Hall of Residence, additions to Playing Fields, etc., amount to date—£107,686. Appeal for funds to meet cost of new buildings for Dept. of Glass Technol., amount to date—£35,605.

NEW BUILDINGS. Work in progress on new buildings for the Dept. of Glass Technol., extensions to buildings which house the Facs. of Arts, Pure Sci., Med. and Law, and the Edgar Allen Library, and extensions to buildings of Dept. of Applied Sci.

Crewe Hall, the Univ. Hall of Residence for Men, formally opened by His Grace the Lord Archbishop of Canterbury in Feb. 1937.

NEW POSTS. Full time Lectureship in Dental Mechs. Honorary Lectureship in Radiological Anat. Honorary Lectureship in Dental Prosthetics. Part-time Demonstratorship in Physiol. Asst. Lectureship in Geog. Research Assistantship to Prof. of Engin.

OTHER DEVELOPMENTS. Athletics Ground. A further 20 acres of land adjoining the existing Playing Fields acquired and development of this land begun. Medical Examination of Students. Scheme adopted under which all

full-time day students may, if they wish, be medically examined on entering the Univ.

**CHANGES IN REGULATIONS.** A new Statute and alterations in Statutes have been approved, authorizing the alteration in qualifications to enter upon a degree course, and await consideration of Privy Council. Anatomy added to list of Special Honours Schools in Fac. of Pure Sci. Degrees of M.Sc.Tech. and D.Sc.Tech. added to degrees of Fac. of Metallurgy.

**EXTRA-MURAL WORK.** During the session 1936-37 84 Tutorial Classes and 7 University Extension Courses were held.

**VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES.** The following lectures were given : Prof. G. T. Clapton, "Villiers de l'Isle Adam," to Edinburgh Univ. French Society. Prof. G. R. Potter, "Student Life Five Hundred Years Ago," to Durham Univ. Historical Society ; and "Europe in the Sixteenth Century," (16 lectures) at Cambridge Univ. Prof. G. M. Bennett, "The Value of Crystallography in Chemical Research," to St. Andrew's Univ. Chemical Society. Dr. S. Glasstone, "Oxidation-Reduction Potentials," at Cincinnati Univ. ; "Some Aspects of Electrolytic Oxidation," to the Illinois Univ. Section of the American Chemical Society, to the Research Colloquia of Massachusetts Inst. of Technol., California Univ. and Hanford Coll., Pennsylvania ; and "Intermolecular Compounds," to Stanford Univ. Prof. L. E. S. Eastham, "Problems of Geographical Distribution in relation to those of Economic Zoology," at Birkbeck Coll., London. Prof. R. N. Rudmose Brown, a lecture at the London School of Econ. Dr. H. A. Krebs, "The Biological Breakdown of Carbohydrates," to Leeds Univ. Chemical Society. Prof. W. E. S. Turner, "Glass as a Material of Construction," to Manchester Coll. of Technol. Chemical Society.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. E. Fraenkel (Oxford Univ.), "Horace and Augustus." Prof. P. S. Noble (Leeds Univ.), "The Last of the Poets of Rome." Prof. F. H. Sandbach (Cambridge Univ.), "Menander, the Perfection of Ancient Comedy." Prof. P. N. Ure (Reading Univ.), "Some Early Greek Potters." Prof. G. Bazin (Brussels Univ.), "Delacroix et Baudelaire." Prof. A. Carnoy (Louvain Univ.), "Linguistique Indo-Européenne et Mythologie." Dr. E. Friesse (University Coll., Nottingham), "Berlin und der Berliner." Prof. C. E. Gough (Leeds Univ.), "Die lyrische Poesie C. F. Myers." Dr. H. G. Jentsch (Manchester Univ.), "Skilauf im Oberharz." Dr. R. Peacock (Leeds Univ.), "Einiges über die neuere deutsche Literatur." Emeritus Prof. F. J. C. Hearnshaw (London Univ.), "The Reign of H.M. King George V." Dr. S. A. Peyton (Reading Univ.), "English Poor Law, 1795-1840." Prof. A. S. Turberville (Leeds Univ.), "The Social Influence of the Peerage at the opening of the 19th Century." Mr. W. Fitzgerald (Manchester Univ.), "Russia." Prof. A. C. Hardy (University Coll., Hull), "British Fisheries." Prof. W. E. Curtis, F.R.S. (King's Coll., Newcastle-upon-Tyne), "The Spin of the Nucleus." Prof. H. M. Dawson (Leeds Univ.), "The Unravelling of Complex Reactions." Prof. F. G. Donnan, F.R.S. (London Univ.), "Forty Years of Physical Chemistry: Some Reminiscences." Prof. R. Robinson, F.R.S. (Oxford Univ.), "The Molecular Structure of Strychnine." Prof. J. Glaister (Glasgow Univ.), "Some Medico-Legal Aspects of Crime Detection." Prof. F. S. Atkinson (Leeds Univ.), "Piece-Work and Day Rate Payments." Prof. P. L. Collinson (University Coll., Nottingham), "Mine Rescue Work." Principal C. A. Edwards (University Coll., Swansea), "Some Technical Aspects of Tinplate Making." Prof. F. C. Thompson (Manchester Univ.), "Some recent Researches on the Drawing of Wire."

RETIREMENT. J. N. Birch (Spanish).

RESIGNATIONS. Dr. Janet Espiner (French). K. Urwin (French), on apptment. as Asst. Lectr. in French, University Coll. of North Wales, Bangor. Miss M. J. Sargeaunt (Education), on apptment. as Adviser of Women Students and Warden of Masson Hall, Edinburgh Univ. W. R. Andress (Engineering Maths.), on apptment. as Lectr. in Pure and Applied Maths., Battersea Polytechnic, London. J. W. Frame (Maths.), on apptment. as Lectr. in Maths., Huddersfield Technical Coll. Dr. J. Clark (Infectious Diseases). Dr. G. H. Froggatt (Dental Mechanics). Dr. J. Mathewson Webster (Forensic Med.), on apptment. to take charge of a Forensic Medicine Science Laboratory established by the Home Office to serve the Police Forces in the West Midlands. Dr. T. E. Gumpert (Physiol.). Dr. J. C. Paisley, Junr. Asst. Bacteriologist, on apptment. as Medical Officer to Moran Tea Co., Assam, India. Dr. G. Clark, on apptment. as Medical Officer of Health, Northwood, Middlesex. R. Ibbotson (Non-Ferrous Metallurgy).

DEATHS. Emeritus Prof. W. C. Summers (Latin). Emeritus Prof. W. Ripper (Mech. Engin.).

STUDENTS. Full-time: total, 761, including 97 graduates. Part-time: total, 2231, including 79 graduates.

DEGREES. B.A., 40; B.Mus., 1; M.A., 27; LL.B., 9; B.Sc., 36; M.Sc., 19; D.Sc., 1; M.B., Ch.B., 17; B.Eng., 23; B.Sc.Tech., 5; M.Eng., 16; M.Sc.Tech., 2; Ph.D. (Tech. Sci.), 2; B.Met., 4; M.Met., 2; D.Met., 1; Ph.D. (Metall.), 7.

# UNIVERSITY OF WALES, CARDIFF

Founded 1893

VISITOR AND PROTECTOR—H.M. THE KING.

CHANCELLOR—H.R.H. THE DUKE OF KENT, K.G.

PRO-CHANCELLOR—The Rt. Rev. THE BISHOP OF MONMOUTH, D.D.

VICE-CHANCELLOR—for biennium ending Aug. 31, 1939, Principal IFOR L. EVANS, M.A. Camb., University College of Wales, Aberystwyth, thereafter Principal C. A. EDWARDS, D.Sc. Manc., F.R.S.

WARDEN OF THE GUILD OF GRADUATES—REV. HERBERT MORGAN, M.A.

DEAN OF DIVINITY—Prof. THEODORE H. ROBINSON, Litt.D., D.D., D.Th.

REPRESENTATIVE IN PARLIAMENT—See p. 18.

REGISTRAR—D. BRYNMOR ANTHONY, M.C., M.A., University Registry, Cathays Park, Cardiff.

SECRETARY TO THE COUNCIL—JENKIN JAMES, O.B.E., M.A.

Telephone : Registry—Cardiff 1776, 1777

## CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR.

UNIVERSITY COLLEGE OF S. WALES AND MONMOUTHSHIRE, CARDIFF.

UNIVERSITY COLLEGE OF SWANSEA.

## SCHOOL OF THE UNIVERSITY

THE WELSH NATIONAL SCHOOL OF MEDICINE.

## ASSOCIATED THEOLOGICAL COLLEGES AND SCHOOLS OF THEOLOGY

UNITED THEOLOGICAL COLLEGE, ABERYSTWYTH AND BALA. At *Aberystwyth* : Principal—Rev. H. Harris Hughes, B.A., B.D., Prof. of *Christian Doctrine and Ethics of Religion*. Other Profs. : Rev. J. Y. Evans, M.A., B.D., *Church Hist.* ; Bleddyn J. Roberts, M.A., B.D., *Hebrew and O.T. Exegesis* ; Rev. W. R. Williams, M.A., *New T. Greek* ; Rev. D. Morris Jones, M.C., M.A., B.D., *Theism and Philos. of Religion and Hist. of Religions*. At *Bala* : Principal—Rev. David Phillips, M.A. ; Rev. Prof. G. A. Edwards, M.A., *Past. Theol.*

BANGOR SCHOOL OF THEOLOGY. Rev. Prof. J. Williams Hughes, M.A., B.D. *N.T. Greek* ; Rev. Prof. H. H. Rowley, M.A., D.D., B.Litt., Rev. Principal J. T. Evans, M.A., B.D., *Hebrew* ; Rev. Principal J. Morgan Jones, M.A., Thomas Richards, D.Litt., R. T. Jenkins, M.A., LL.B., *Ch. Hist.* ; Rev. Prof. J. E. Daniel, M.A., *Christ. Doct. and Ethics* ; Rev. Glyn Simon, M.A. ; Otto A. Piper, D.D., *Philos. of Religion*.

BRECON, The Memorial Coll. Principal—Rev. T. Lewis, M.A., B.D., *Hebrew and O.T. Exegesis*. Other Profs.: Rev. Joseph Jones, M.A., B.D., *N.T. Greek and Exegesis*; Rev. John Evans, B.A., *Ch. Hist.*; Rev. J. D. Vernon Lewis, M.A., B.D., *Christian Doctrine and Ethics*; Rev. D. J. Davies, B.A., *Theism and Philos. of Religion*.

CARDIFF SCHOOL OF THEOLOGY. Prof. H. J. W. Tillyard, M.A., D.Litt., Rev. Prof. J. Griffiths, M.A., B.D., and Rev. Canon E. W. Williamson, M.A., *New T. Greek and Exegesis*; Prof. T. H. Robinson, Litt.D., D.D., D.Theol., and A. R. Johnson, Ph.D., *Old T. Hebrew and Semitics*; Prof. J. W. Scott, M.A., Ph.D., and Rev. Prof. Edward Roberts, M.A., B.D., *Philos. of Religion, Philosophical Theism and Christian Doctrine and Ethics*; Rev. Principal T. W. Chance, M.A., B.D., *Church History*.

CARMARTHEN, The Presbyterian Coll. Principal—Watkin S. Jones, M.A., M.Sc. Lectrs.: Rev. Prof. M. B. Owen, B.A., B.D., *Ch. Hist.*; Rev. Prof. J. O. Stephens, M.A., B.D., *Christian Doctrine and Phil. of Religion*; Rev. Prof. D. P. Roberts, M.A., B.D., *New T. Greek*; Rev. Prof. D. L. Trevor Evans, B.A., B.D., *Hebrew and Old T. Exegesis*.

## GENERAL INFORMATION

The Univ. was founded by Charter, 1893. As the result of an inquiry held by a Royal Commission in 1916–1918, a Supplemental Charter was granted to the Univ. in 1920, which introduced many important changes. For outline of changes, see *Yearbook*, 1929. A further Supplemental Charter was granted in 1932 providing *inter alia* for the institution of the Welsh National School of Medicine as a School of the Univ., and for the recognition of Schools of Theology at the Collegiate centres. The teaching for initial degrees is undertaken by the constituent and associated Colleges and by the Welsh National School of Medicine, and matriculation in the Univ. is open only to students of those institutions; in the case of an associated Theological College, only to students who are graduates of an approved University. The Technical College, Cardiff, is associated for the purpose of providing courses of study for the degree of B.Pharm. The Univ. prescribes conditions under which it awards initial degrees to students of the Colleges and of the School of Med. and conducts the final exams. An Academic Advisory Committee deals with the conditions on which School Leaving certificates are accepted by the Univ. for matriculation, and as relieving a student from repeating in College work done in Secondary Schools, and with other matters lying in the borderland between School and Univ.

ADMISSION. See Appendix I.

DEGREES. B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; B.Tech.; B.Mus., M.Mus., D.Mus.; LL.B., LL.M., LL.D.; M.B., B.Ch., B.Pharm., M.D., M.Ch.; B.D., D.D.; Ph.D. (in Arts, Science, Law, Medicine).

For a first degree 3 yrs. of study are required. The degree in Med. is only open to a graduate in Arts or Science of some British or approved colonial or foreign Univ.; the period of qualification is 6 yrs., of which the last 3 may be spent in an approved School of Med. in the U.K. or in one of the Univs. of Paris, Berlin, Vienna, or the Johns Hopkins Univ. The degree of B.D. (3 yrs.' course) is post-graduate; study is pursued in one of the Associated Theol. Colls. or at the Schools of Theol. of the University Coll. of N. Wales, Bangor, and the University Coll. of South Wales and Monmouthshire, Cardiff, respectively (*v. supra*). Study for an Honours degree in Arts, Science, Music, or



Law ordinarily covers 4 yrs. The M.A., M.Sc., and LL.M. may be awarded to graduates of other Univs. approved for this purpose who pursue a scheme of research for at least 2 yrs. in one of the constituent Colls. As regards Ph.D., see p. 13.

**DIPLOMAS.** Education, 1 yr. postgraduate; Public Health (D.P.H.), 1 yr. subsequent to attainment of registrable qualification; Tuberculous Diseases (T.D.D.), 2 yrs. subsequent to attainment of registrable qualification (including 12 mths.' resident appointment in Tuberculosis Hospital and attendance at approved courses of instruction); Agricultural Science or Forestry, 1 yr. for graduates and others with equivalent qualifications; Theology, 3 yrs.; Agriculture, 3 winter sessions of two terms and approved practical work.

**FEES:** Matricn., £3; examns. qualifying for Bachelor degree, from £6:15s.; Master, £8; Ph.D., £12; higher Doctorates, £20.

**POST-GRADUATE SCHOLARSHIPS, ETC.** The Univ. has funds amounting to over £5000 p.a., including the income of a capital sum of £20,000 given by the late Dr. Samuel Williams of Llanelly, Carms., for the encouragement of research. In addition to 6 Fellowships (annual value £200 each), one of which is a Dr. Samuel Williams Fellowship, tenable for 2 yrs., it awards 20 or more studentships (4 named Dr. Samuel Williams Studentships), on the nomination of the Colls. to students who after graduation engage in work preparatory to research for 2 yrs. Grants to assist research into Welsh language, institutions, etc., are made, preferably to members of the Univ., from the T. Ellis Memorial Fund (capital £1574). See also Appendix II. 16.

**PRIZES.** *The Roberts Welsh Reading Prize* (bound books value £2); *The Sir Samuel Evans Prize* (c. £40) for the most proficient student in the Hons. examns. in Law; *The Prince Llywelyn ap Gruffydd Memorial Prize* (a bronze medal and bound books value £2:10s.) for the best M.A. dissertation on a subject relating to the hist. of Wales or the Welsh Marches; *The Brough Prize in Logic and Psychology* (about £40) for the best M.A. dissertation on a subject within the province of Logic or Psychol.; *The John Maclean Prize* (silver medal and bound books, value £2:10s.) for the most proficient student in the degree examns. in Obstetr. and Gynæcol.; *The Willie Seager Prizes* in Medicine, Surgery, and Pathology and Bacteriology (a gold medal and books value £4), for the most proficient students in the degree examns. in Med., Surg., and Pathol., and Bacteriol. respectively; *The Hywel Dda Prize* (£20), awarded to the person who has by work published within the preceding 5 calendar yrs. done most to advance the study of ancient Welsh law and custom, or thrown most light upon its origins and history; *The Sir Ellis Griffith Memorial Prize* (books value £5 and a money prize of £10), awarded to the person who has by work published within the preceding 3 calendar yrs. produced the best work dealing with Welsh Lit., the arts and crafts of Wales, or with artistic work produced by Welshmen.

**THE UNIVERSITY APPOINTMENTS BOARD** is concerned with appointments of all kinds (Secretary—J. H. Lloyd, M.Sc.). Address: University Registry, Cathays Park, Cardiff.

1936-37, 279 appointments (men 160, women 119), including: Educational, 186; Business, administrative, etc., 93.

**PUBLICATIONS:** *Calendar* (Oct.), 4s. 6d. post free. Courses in Div. and in Mus., and Matricn. and Degree Regns., free. Matricn. Examn. Papers, 6d. Degree Papers: Arts, 6s., Science, 5s., Medicine, 1s., Theology, 9d. Bulletin of Board of Celtic Studies, 5s. Publns. of the Council of Music. The best account of the early history of the Univ. is in *The University of Wales*, by W.

Cadwaladr Davies and W. Lewis Jones (F. E. Robinson & Co.). The introduction to the Report of the Royal Commission on Univ. Education in Wales, 1918, 1s., contains a valuable summary of the history of the University up to 1918.

## THE YEAR 1936-37

**BENEFACTIONS.** The late Dr. E. G. Brisco Owen, London, £100 for establishment of a Prize to be known as "The Dr. Ella Brisco Owen Prize."

**RECENT DEVELOPMENTS.** The status of the following Heads of Depts. raised from that of Independent Lecturer to that of Professor: German (Univ. College of Wales, Aberystwyth); Economics (Univ. College of North Wales); Biology (Univ. College of Swansea). A dept. of Economics established at the University College of Swansea from beginning of session 1937-38. Regulations for a new degree (B.Arch.) approved. Proposals for reconstitution of Appointments Board considered, and a full-time Secretary appointed.

**HONORARY DEGREES.** *M.A.*—Mr. Dan Edwards; Mr. A. H. Lee, M.C. *D.D.*—Rev. Evan Kenfig Jones; Very Rev. Richard Roberts. *LL.D.*—Mr. Percy Thomas, O.B.E.; Sir Charles John Howell Thomas, K.C.B., K.C.M.G.; Sir George L. Barstow, K.C.B.; Sir William Henry Hoare Vincent, G.C.I.E., K.C.S.I. *D.Litt.*—Professor Joseph Vendryes.

**STUDENTS.** Full-time: 3197; graduates pursuing additional degree courses, 228; graduates engaged in research work, 169; graduates pursuing courses of training in Education, 314; undergraduates preparing for a first degree, 2232; other full-time students, 254. Part-time students, 364.

**DEGREES.** B.D., 9; B.A., 363; M.A., 29; LL.B., 23; B.Sc., 247; M.Sc., 28; D.Sc., 2; M.B., B.Ch., 12; M.D., 2; B.Mus., 2; Ph.D. 16.

# UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

Founded 1872

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—  
The Rt. Hon. LORD DAVIES, M.A., LL.D.

VICE-PRESIDENTS—The Rt. Hon. the EARL OF LISBURN; SIR DAVID  
CHARLES ROBERTS, LL.D., D.L., J.P.

TREASURER—D. OWEN EVANS, M.P.

PRINCIPAL—IFOR LESLIE EVANS, M.A. Camb, *Vice-Chancellor*.

VICE-PRINCIPAL—Prof. T. C. JAMES, M.A. Camb., D.Sc., F.I.C.

REGISTRAR—J. MORGAN JONES, M.A.

LIBRARIAN—ARTHUR AP GWYNN, M.A.

Telephone : Aberystwyth 346, 347.

## TEACHING STAFF

### *Agriculture, v. infra*

### *Arts and Crafts, v. Education*

### *Botany*

Newton, Mrs. L., M.Sc., Ph.D.  
Brist. Prof.

Chater, E. H., B.Sc. Lond., M.Sc.  
Lectr.

Carter, P. W., M.Sc. Lectr.

Wilson, Irene M., M.Sc. Lond.  
Asst. Lectr.

### *Celtic Philol. and Palæog.*

Lewis, Timothy, M.A. Manc.,  
B.A. Reader.

### *Chemistry*

James, T. C., M.A. Camb., D.Sc.,  
F.I.C. Prof.

### Senr. Lectrs. :

Bury, C. R., M.A., B.Sc. Ox.

Hudleston, L. J., M.C., B.Sc. Lond.

Davies, D. Gwynne, B.Sc., Ph.D.  
Asst. Lectr.

..... Pt.-time Asst.

### *Classics*

Wood, E. J., M.A. Aberd. and  
Camb. (Latin) Prof.

Jenkins, E. D. T., M.A. Ox.  
(Greek) Indept. Lectr.

### Asst. Lectrs. :

Duff, A. M., M.A., B.Litt. Ox.

Williams, A. H., M.Litt. Camb,  
B.A.

### *Economics and Pol. Science, v. also Politics*

Forrester, R. B., M.A. Edin.,  
M.Com. Manc. Prof.

George, Percy, M.A. Camb., M.Sc.  
Lectr.

Morris, J., M.Sc. (Econ.) Lond.  
Asst. Lectr.

### *Education (incl. Art and Crafts)*

Chapple, C. R., M.A. Lond. Prof.

Pinsent, A., M.A. Lond., B.Sc.

Sr. Lectr. and Master of  
Method.

Jones, Gwenan, M.A., Ph.D. Minn.

Sr. Lectr. and Mistress  
of Method.

Green, G. H., M.A., B.Sc., Ph.D.  
Lond., B.Litt. Ox. Lectr.

Asst. Lectrs. :

Edwards, Ifan ab O., M.A. Ox. and  
Wales.

Creed, Rachel M., M.A. Ox.

Saer, Hywela A., Ph.D. Lond.,  
B.A.

Gapper, R. L., B.Sc., A.R.C.A.  
Instr. (Art and Crafts), Cura-  
tor of Museum.

Bird, H., A.R.C.A. Asst.

Davies, Gwenhwyfar  
Pt.-time Asst.

2 Instrs. in Physical Training and  
1 in Needlework.

*English Language and Lit.*

Atkins, J. W. H., M.A. Camb. and  
Lond. Rendel Prof.

Winstanley, Lilian, M.A. Manc.  
Sr. Lectr.

Earnshaw, J., M.A. Manc. Lectr.

Palmer, J. L., M.A. Camb.  
Asst. Lectr.

*French Lang. and Lit. and  
Romance Philol.*

Barbier, J. L. A., L. ès L. Paris,  
O.A., Chev. Lég. d'H. Prof.

Thomas, A. B., D. de l'U. Lyon,  
M.A. (Phonetics) Sr. Lectr.

Phillips, Eva M., D. de l'U. Paris,  
M.A. Lectr.

Williams, J. Killa, M.A. Asst.

*Geography and Anthropology, v.  
also Oceanography*

Forde, C. D., B.A., Ph.D. Lond.  
Gregynog Prof.

Whitehouse, W. E., M.Sc.  
(Geog.) Special Lectr.

Bowen, E. G., M.A. Lectr.

Fogg, W., M.A. Manc.  
Asst. Lectr.

*Geology*

Lewis, H. P., M.A. Camb. Prof.

Challinor, J., M.A. Camb. Lectr.

Platt, J. I., M.Sc. Manc. Lectr.

*German*

Evans, David, M.A. Prof.

Edwards, Handel B., M.A.  
Asst. Lectr.

Williams, T. P., M.A. Asst.

Jolles, Thijs, Ph.D. Heid. Asst.

*History, v. also Classics*

Treharne, R. F., M.A., Ph.D.  
Manc. Prof.

Herbert, Sydney, M.A.  
(Mod. Hist.) Sr. Lectr.

Johnston, S. F. H., B.A., B.Litt.  
Ox. Asst. Lectr.

*History, Colonial, v. Politics,  
International*

*History, Welsh*

Lewis, E. A., D.Sc. Lond., M.A.,  
D.Litt.

Sir John Williams Prof.  
Roderick, A. J., M.A.

Research Lectr.

*Law, English*

Levi, T. A., M.A., B.C.L. Ox.,  
LL.B. Lond. Prof.

*Spl. Lectrs. :*

Wing, R. A., B.A., LL.B. Camb.  
Shannon, N. P.

Winder, W. H. D., B.A. Ox.,  
LL.M. Lond. Asst. Lectr.

*Logic and Philosophy*

Aaron, R. I., D.Phil. Ox., M.A.  
Prof.

Davies, Dan, Ph.D. Glas., M.A.  
Lectr.

Jones, J. R., M.A. Asst. Lectr.

*Mathematics, Applied*

Lewis, Thos., M.Sc. Indpt. Lectr.  
Asst. Lectrs. :

Meyler, Dorothy S., M.Sc.

Easthope, C. E., M.Sc.

*Mathematics, Pure*

Morton, V. C., M.A. Ox. Prof.

Williams, D. R., Ph.D. Stras., M.A.  
Lectr.

Meyler, Dorothy S., M.Sc.

Asst. Lectr.

*Music*

de Lloyd, David J., Mus.D. Dub.,  
B.A., B.Mus. Gregynog Prof.

Clements, Charles, B.Mus.,  
F.R.C.O. Lectr.

4 Assts.

*Oceanography*

Jenkins, J. Travis, Ph.D. Kiel,  
D.Sc. Hon. Lectr.

*Palæography and Diplomatics*

Lewis, Prof. E. A. Lectr.

*Philosophy, v. Logic*

*Physics* [Prof.

Owen, Gwilym, M.A. Camb., M.Sc.  
Manc., D.Sc. Liv. (to 30.9.38)

Williams, E. J., Ph.D. Camb. and  
Manc, D.Sc. (from 1 to 38)

Davies, R. M., D.Sc. Lectr.

Jones, I. C., M.Sc. Lectr.

Richards, D. A., M.Sc. Lond.  
Asst. Lectr.

1 Tech. Asst.

*Politics, Internat.*

Carr, E. H., C.B.E., M.A. Camb.  
Wilson Prof.

Parry, E. Jones, M.A., Ph.D.  
Lond. (Colonial Hist.) Lectr.

Routh, D. A., B.A. Ox. Asst. Lectr.

*Welsh Lang. and Lit.* [Prof.

Parry-Williams, T. H., D.Litt. Ox.,  
Ph.D. Freib., M.A., D.Litt.

Jones, D. J. Gwenallt, M.A. Lectr.

Jones, Thos., M.A. Asst. Lectr.

*Welsh History, v. History, Welsh*

*Zoology, v. also Oceanography.*

Laurie, R. D., M.A. Ox. Prof.

Watkin, E. E., B.Sc., Ph.D. Lectr.

Rees, Florence G., B.Sc., Ph.D.  
Lectr.

Jones, J. R. E., B.Sc., Ph.D.

Asst. Lectr.

Jenkins, J. R. W., M.Sc.

(Entomology) Spl. Lectr.

**Agriculture**

Griffith, J. Jones, B.Sc. Prof.  
Phillips, R., M.Sc., A.I.C. Lectr.

*Agric. Botany*

Stapledon, R. G., C.B.E., M.A.  
Camb. Prof.

Sampson, Kathleen, M.Sc. Lond.  
Lectr.

Ellison, W., B.Sc., Ph.D. Durh.  
Asst. Lectr.

*Agric. Chemistry*

Fagan, T. W., M.A. Camb., F.I.C.  
Prof. and Advisory Chemist.

Davies, R. O., M.Sc. Lectr.

*Agric. Economics*

Ashby, A. W., M.A. Ox.  
Prof. and Adviser.

Howell, J. Pryse, M.Sc.  
Asst. Adviser.

Jones, W. H., M.Sc.  
Marketing Asst.

Harry, E. Llewelyn, M.Sc.  
Marketing Asst.

Tech. Assts. :

Smith, J. H., B.Sc.

Phillips, J. R. E., B.A.

Evans, H. E., B.Sc.

Griffiths, J. D., N.D.D.

Williams, C. Trevor, N.D.A.

*Agric. Zoology, v. Zool. supra*

Advisory Dairy Bacteriologist :

S. B. Thomas, M.Sc.

Advisory Mycologist :

D. W. Davies, B.Sc.

Advisory Agric. Zoologist :

J. R. W. Jenkins, M.Sc.

*Dairying*

[Asst. Lectr.

Lewis, John, N.D.A., M.D.D.

Tudor, Jane A., B.Sc., N.D.D.  
Asst. (and Dairy Bac-  
teriol.).

Instructors in : Vet. Hyg., Agric.  
Book-keeping and Agric.  
Engin.

Poultry Manager.

**Plant-Breeding Station**

Stapledon, Prof. R. G., C.B.E.,  
M.A. Camb. Director.

**Investigators :**

Jenkin, T. J., D.Sc.  
Williams, R. D., M.Sc.  
Davies, Wm., M.Sc.  
Jones, E. T., M.Sc.  
Evans, Gwilym, M.Sc.  
Jones, Ll. I., B.Sc.

Lands Director, Cahn Hill Im-  
provement Scheme : Moses  
Griffith, M.Sc.

**Grassland Adviser:**

Thomas, M. T., B.Sc.

**Assts. :**

Beddows, A. R., M.Sc.  
Milton, W. E. J., M.Sc., N.D.A.

**University Extension**

Morgan, Rev. Herbert, M.A. Ox.,  
B.A.

Director of Extra-mural Studies.

**Residential Tutors :**

Griffiths, T. Hughes, M.A., Dr. Pol.  
Sc. Giessen.

Lewis, D. Hughes, B.A.

Rees, Alwyn D., M.A.

35 Tutors.

**GENERAL INFORMATION**

Founded in 1872, the College was incorporated by Royal Charter in 1889, and is a constituent College of the Univ. of Wales. Its main building and Students' Hostels are on the sea front, facing Cardigan Bay.

**LIBRARIES.** College, 82,000 vols. and 6000 pamphlets, including the collection of Sir John Rhys. Access to the National Library of Wales, founded in 1907, Copyright Library since 1912, over 750,000 printed books, 17,000 manuscript vols., 160,000 documents, and numerous maps, prints and drawings, rich in Welsh and other Celtic material. **MUSEUMS:** Archæol., Bot., Chem., Ethnog., Geog., Geol., Zool., Gallery of Arts and Crafts. The Chemistry LABORATORIES, erected in 1907, are the most complete in Wales. Agric. Expl. and Plant-breeding Stations (v. *also* App. III. A. I. (a)), Cahn Hill Improvement Scheme and Training Farm.

**FACULTIES.** Arts, Science, Rural Sci., Law, Music. *Departments:* Agriculture, Teaching (Elem. and Secondary), Art and Handicraft, Extra-mural, Phonetics. A special feature is the ample provision for instruction and research in Agriculture.

Courses in Arts, Science, Rural Sci., Law, Music, for Degrees of the Univ. of Wales and for University Diplomas in Agricultural Science and Education.

College Diploma courses : Anthropology, 2 yrs. ; Dairying, 2 yrs. ; Music, 2 yrs. ; Geography, 1 yr. ; Biology, 1 yr. ; Art, 2 yrs. ; Handicraft, 2 yrs.

Courses in Science meet the requirements of the first year of Medical study, the examns. of the Pharmaceutical Society, and other bodies.

Post-graduate courses (1 yr.) for Teachers (Elem. and Secondary), and in Agric.

**RESEARCH** work is systematically carried on in Agric. Botany and Agric. Chemistry (whole-time Research Botanist, Chemist, Mycologist, Zoologist, and Dairy Bacteriologist), Bot., Chem., Geol., Geog., Physics, Zool., English, Welsh, Welsh History, Philos., Maths., Economics, History.

**FEES** for tuition in Arts, £15 per session ; Science, £20 ; Registration, £1 ; Research students, 6 to 10 gs.

**SCHOLARSHIPS FOR GRADUATES.** 5 for Research, value £25 to £150, open to students of the College. *See also* under Univ. **TRAVELLING GRANTS** for

visiting Continental institutions, total, £500. Grant varies according to expenses incurred. Sir John Williams Research Studentships for Welsh Studies.

**RESIDENCE.** There are two hostels for women (Alexandra Hall and Carpenter Hall) accommodating about 300 students. Enquiries should be addressed to Mrs. Guthkelch, B.A., Senior Warden of the Halls of Residence and Warden of Alexandra Hall. Fee for board and residence, £52:10s. to £65:12s. p.a.

**MEDICAL SCHEME.** Comprehensive system of insurance compulsory for all full-time students; capitation fee, 12s. 6d. p.a.

**UNIVERSITY EXTENSION.** Local lectures and short courses in Agric. subjects; Dairy School; Extra-mural classes in many subjects. The Advisory Staff of the Dept. of Agric. give advice to farmers, fruit growers and poultry keepers.

**AFFILIATION.** The Coll. is recognized by Ox. and Camb., and by Edin. and N.U.I., by the R.C.P. and S. Eng. and the R.C.S.I., the F.P. & S. Glas., the R.C.P.I. and the R.C.S.I., the R.C.V.S., the Institute of Chemistry, and the Surveyors' Instn.

**PUBLICATIONS.:** *Prospectus* (Feb.); *Reports* (Oct.), 1s. 2d., post free; *Aberystwyth Studies*; Students' Magazine, *The Dragon*; Inaugural Lectures.

## THE YEAR 1936-37

**BENEFACTIONS.** For New College Buildings: From Old Students' Association Appeal Fund, £4300; Mr. G. H. Russell, £25. For Plant Breeding Station: Sir Julien Cahn, Bt. (Cahn Hill Improvement Scheme), £3000; The Dinam Charity, £200; Mr. J. P. Morgan, £50; miscellaneous, about £25. Other gifts, about £65.

**NEW BUILDINGS.** A scheme for new buildings on land adjoining the National Library of Wales has been approved.

**EXTRA-MURAL WORK.** Classes were held at 48 centres (17 three-year Tutorial Classes, 5 Preparatory Classes, and 26 Extension Courses).

**PUBLIC LECTURES AT THE COLLEGE, ETC.** The Rt. Hon. Lord Rutherford, O.M., F.R.S., "Science in the Making" (Inaugural Lecture). Prof. E. H. Carr, C.B.E., "Public Opinion as a Safeguard of Peace," "Current International Affairs" (2 lectures), "The Far East Since the War," "The Foreign Policies of Soviet Russia." Mr. Charles Johnson (National Gallery), "Richard Wilson." Prof. Haferkorn (Danzig), "Danzig To-day." Mr. Iorwerth C. Peate, "What is Folk Culture," "Folk Culture" (4 lectures). Prof. W. G. S. Adams, C.B., "The Good Community." Mr. C. S. Orwin, "Farming and Self-Government in the English Village." Dr. Gottfried Pfeiffer (Univ. of Bonn), "The Economic Geography of California." Prof. Sir John E. Lloyd, "The Story of Ceredigion" (Gregynog Lectures—four). Prof. David Muzzey (Columbia Univ.), "The New Deal." Prof. J. L. André Barbier, "The International Exhibition, Paris (1937)."

**INTERCHANGE OF TEACHERS.** The following lectures were given under the scheme for the interchange of Teachers: Miss Muriel F. Jolliffe (Bangor), "International Capital Movements" (3 lectures); Mrs. Irene E. Harding (Cardiff), "Differential Geometry by Vector Methods" (3 lectures); Mr. W. M. Medlicott (Swansea), "The Near Eastern Question in the XIXth Century"

(4 lectures) ; Mr. Stanley Parris (Cardiff), " Present Economic Position of Great Britain " (3 lectures).

RESIGNATIONS. Prof. T. Gwynn Jones (Welsh Lit.), Miss Dorothy E. Roberts (Education), Mr. K. Britton (Philos.), Mr. G. T. Morgan (Dairying), Mr. J. B. Bowen (Chem.), Mr. K. W. Hancock (Art).

DEATHS. Emeritus Prof. D. Morgan Lewis and Emeritus Prof. G. A. Schott.

STUDENTS. Full-time, 771 ; graduates, 180 ; preparing for first degree, 529 ; other full-time, 62. Part-time and occasional, 17 Pre-matriculation, 59. Extra-mural, 854.

DEGREES OBTAINED. B.A., 103 ; M.A., 9 ; LL.B., 23 ; B.Sc., 42 ; M.Sc., 5 ; Ph.D. 8.



# UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

Founded 1885

PRESIDENT—The Rt. Hon. LORD HOWARD DE WALDEN, LL.D.

CHAIRMAN OF THE COUNCIL—G. A. HUMPHREYS, J.P., F.S.A.

PRINCIPAL—D. EMRYS EVANS, M.A., B.Litt. Ox.

SECRETARY AND REGISTRAR—E. H. JONES, M.A. Glas.

LIBRARIAN—T. RICHARDS, M.A., D.Litt.

Telephone : Registrar—Bangor 501.

## TEACHING STAFF

<i>Agriculture, v. infra</i>	Lees, Miss M. E., M.A. Vict. (Latin) Lectr.
<i>Applied Electricity and Hydro- Electric Engineering</i>	Browne, R. A., Ph.D. Camb., M.A. Lectr.
Williams, W. E., B.Sc.	<i>Economics</i>
Indpt. Lectr.	Rees, J. Morgan, M.A. Prof.
Davies, M. W. H., B.Sc.	Jolliffe, Miss M. F., M.A. Lectr.
Asst. Lectr.	Black, D., M.A. Asst. Lectr.
<i>Botany</i>	<i>Education</i>
Thoday, D., M.A., Sc.D. Camb.	Archer, R. L., M.A. Ox. Prof.
Prof.	Paterson, Alice, M.A. Edin., Ph.D.
Davey, A. Jane, M.Sc. Lond.	Jena Lectr.
Lectr.	Thomas, Miss M. Lectr.
Woodhead, N., M.Sc. Manc. Lectr.	Williams, Ivor, B.Sc. Lectr.
<i>Chemistry</i>	Rogers, J., Ph.D. Asst. Lectr.
Simonsen, J. L., D.Sc. Manc., F.R.S., F.I.C. Prof.	Instructors in Drill, Handwork, and Rural Sc.
Bradfield, A. E., Ph.D., D.Sc.	<i>English Lang. and Lit.</i>
Lectr.	Wright, H. G., M.A. Vict. Prof.
Angus, W. Rogie, M.A., B.Sc.	King, R. W., M.A. Lond. Lectr.
Aberd., Ph.D. Lond., F.I.C.	Davies, C., M.A. Lectr.
(Physical C.) Lectr.	<i>Forestry</i>
Asst. Lectr. & Demr. :	Thomson, T., M.Sc. Indpt. Lectr.
Ramage, G. R., B.Sc. Ox., M.Sc., Ph.D. Durh.	Jerram, M. R. K., M.C. Asst. Lectr.
<i>Classics</i>	Molesworth, Col. F. C. Spec. Lectr.
Hudson-Williams, T., M.A., D.Lit. Lond. (Greek) Prof.	<i>French and Romance Philol.</i>
Thomson, H. J., M.A. Ox., D.Litt. St. And. (Latin) Prof.	Jones, P. Mansell, M.A. Camb. and Wales, B.Litt. Camb. Prof.

Cariou, Mlle. H. L. ès L. Lectrice.  
 Urwin, K., M.A. Sheff., D. de l'U.  
 Paris Asst. Lectr.

*German and Teutonic Philol.*

Cunningham, Kathleen, M.A. Dub.,  
 Ph D. Bonn Indpt. Lectr.  
 Uffenorde, Almut, Ph.D. Münster  
 Lektorin.

*History*, v. also Theol.

Dodd, A. H., M.A. Ox. Prof.  
 Thomas, J. Alun, Ph.D. Lond.,  
 M.A. Lectr.  
 Pierce, T. J., M.A. Liv.  
 (Mediæval H.) Lectr.

*History, Welsh*

Jenkins, R. T., M.A., LL.B.  
 Camb., B.A. Indpt. Lectr.  
 Peate, Iorwerth C., M.A. (Folk-  
 Culture), (session 1937-38)  
 Lectr.

*Law*

(In co-op. with Univ. Coll.,  
 Aberystwyth. See there-  
 under.)

*Logic and Philosophy*, v. also  
 Theol.

..... Prof.  
 Lewis, Miss G. A., M.A. Lectr.  
 Lewis, H. D., M.A. Asst. Lectr.

*Mathematics*

Berwick, W. E. H., M.A., Sc.D.  
 Camb. Prof.  
 Phillips, E. G., M.A. Camb., M.Sc.  
 Manc. Lectr.  
 Newing, R. A., B.Sc. Asst. Lectr.

*Music*

Davies, E. T., F.R.C.O.  
 Hon. R.C.M. Director.  
 5 Executants and Teachers.

*Philosophy*, v. Logic and Theol.

*Physics*

Owen, E. A., M.A. Camb., D.Sc.  
 Lond., F.Inst.P. Prof.  
 Mainstone, P.A., M.Sc. Bris. Lectr.

Jones, H. Irvon, M.Sc. Lectr  
 Asst. Lectr. & Demr.:  
 Wright, P., Ph.D.

*Semitic Languages*

Rowley, Rev. H. H., M.A. Bris.,  
 D.D. Lond., B.Litt. Ox. Prof.  
 Thacker, T. W., B.A. Ox.  
 Asst. Lectr.

*Theology*, v. also Semitic Langs.

Spl. Lectrs.  
 Jones, Rev. Principal J. M., M.A.  
 (Church Hist.).  
 Evans, Rev. Principal J. T., M.A.,  
 B.D. (Old Test. and Semitics).  
 Simon, Rev. G., M.A. (Philos.  
 Theism).  
 Daniel, J. E., M.A. (Christian  
 Doctrine).  
 Hughes, Rev. Prof. J. Williams,  
 M.A., B.D. (New Test.).  
 Richards, T., M.A., D.Litt.  
 (Church Hist.).

*Welsh*

Williams, Ifor, M.A., D.Litt. Prof.  
 Parry, R. W., M.A. Lectr.  
 Parry, T., M.A. Lectr.

*Zoology*

Brambell, F. W. Rogers, B.A.,  
 Ph.D. Dub., D.Sc. Lond.  
 Prof.

Jackson, L. H., B.Sc. Lond.  
 Lectr.

Cragg, J. B., M.Sc. Durh.  
 Asst. Lectr.

*Agriculture*

White, R. G., M.Sc. Leeds Prof.  
 Roberts, E. Jones, M.A. Camb.,  
 M.Sc. Lectr.  
 Williams, H. M., M.Sc. (session  
 1937-38) Temp. Asst. Lectr.

*Agric. Botany* [Indpt. Lectr.

Roberts, R. Alun, Ph.D.  
 Whitehead, T., M.Sc., Ph.D.,  
 A.R.C.S.  
 (Plant Pathology) Adviser.

*Agric. Chemistry* [Prof.

Robinson, G. W., M.A. Camb.  
 McLean, W., B.A., B.Sc. Dub.,  
 A.R.C.S.I., A.I.C. Lectr.  
 Williams, Rice, M.Sc. Asst. Lectr.  
 2 Res. Assts.

*Agric. Economics* [Spl. Lectr.

Ashby, A. W., M.A. Ox.

*Agric. Zoology*

Thomas, Ievan, Ph.D. Camb.,  
 M.Sc. Adviser.  
 Dairy Bacteriologist: Hickson,  
 Miss P., N.D.D.  
 Vet. Advisory Officer: Row-  
 lands, W. T., M.R.C.V.S.  
 Asst. Vet. Adviser: Hughes,  
 L. E., N.D.A., M.R.C.V.S.,  
 D.V.S.M.

Supervisor of Seed Potato  
 Scheme: Currie, J. F., N.D.A.  
 Res. Worker on Agric. Soils:  
 C. Bould.  
 Instrs. in Bldg. Constn., Book-  
 keeping and Vet. Hyg.  
 County Staffs: 5 Organizers;  
 Instructors in Cheesemaking,  
 Dairying, Horticulture and  
 Poultry-keeping.

## University Extension

Whole-time Lectrs.: Jones, E. J.,  
 M.A.; Rogers, E., M.A.;  
 Jones, A. E., B.A.; Jenkins,  
 E., B.A. Half-time: Parry,  
 R. W., M.A.; Pierce, T.  
 Jones, M.A. Many other  
 members of the Staff give  
 single courses or combine in  
 giving a series.

## GENERAL INFORMATION

This College, constituted by Royal Charter in 1885, was made a constituent College of the University in 1893.

**LIBRARIES.** General, 100,000 vols. (Theology a strong feature). Welsh, 50,000, including the largest and best-equipped collection of Welsh periodicals in existence. **MUSEUMS** include: (a) a Zoological section comprising a large collection of vertebrate and invertebrate animals and a collection of human bones representative of the different races of mankind; (b) a collection of Welsh domestic and agricultural bygonies together with Roman finds from Segontium and Capel Curig. **FARM**, 675 acres, chiefly sheep pasture. **Dairy**.

Special facilities are offered for research in Welsh Lang. and Lit., Political, Social, Econ., and Religious Hist. of Wales, and allied subjects.

**COURSES.** B.A. degree courses include among others a "special scheme of study based on the idea of citizenship." There are courses in Theology for B.D. degree, and full courses for the B.Sc. in Agric. and Rural Economy, Forestry, Applied Electricity and Hydro-Electrics, as well as in Pure Sc. College *Diploma* courses in Theology and Agric. (3 yrs.), and in Forestry and Elec. Engineering (2 yrs.). The Agric. course is recognized by the Surveyors' Instn. as qualifying for Students' Proficiency examn. Courses for College Certificates (2) in Music. Other courses: First year of Med. study; 1 yr. post-graduate course for Teachers.

**FEES.** Registration, 1 g. per session. Tuition, per session: Arts, £15; Science, £20; Medicine, 1st year (including lab.), £22; Post-graduate courses, non-lab., 6 gs.; with lab., 10 gs.; Agric., etc., diploma course, winter session, £15; 15s. (2 terms); Farm Practical Instruction, £5 (or 2 gs. a term). College societies (compulsory), £2.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Several College awards ranging in value from £25 to £100, open to students of the College. Loan fund (£458) for

helping poor students to complete courses ; also University Studentships of £100 and Fellowships of £200. *See* under Univ.

**RESIDENCE.** Plas Menai (Warden : Prof. R. L. Archer) provides accommodation for 35 men (fee, £43 p.a.) and University Hall with its annexes for 100 women (fee £49 to £61). The Warden of Women Students, Miss Muriel O. Davis, is also Warden of University Hall. Total cost of living in lodgings and tuition in Bangor from £70 to £80 p.a.

**WARDEN OF WOMEN STUDENTS.** Muriel O. Davis.

**UNIVERSITY EXTENSION, ETC.** Local lectures in Literature, Econ., and Agric. ; small lending libraries ; Tutorial and Preparatory Classes in six counties. The Advisers in Agriculture conduct experiments and give expert advice to farmers and others.

**PUBLICATIONS.** *Calendar* (Oct.), 2s. 6d. ; *Students' Handbook*, 1s. ; *College Magazine*, one issue per term, 1s. ; Prospectus free.

## THE YEAR 1936-37

**BENEFACTIONS.** The late Miss Ann Griffith, £200 for general purposes. Sir Alfred Lewis, £250 to establish a prize for students in Biology. Dr. T. Rowland Hughes, £500 to increase endowment of Rowland Hughes Art Lectures. The late Miss Mary F. Rathbone, residue of her estate after making various bequests and payments. Subscriptions for improvement of Prichard-Jones Hall, £268.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. R. F. Treharne (Aberystwyth), "The English Civil Service in the 13th Century" ; Mr. A. K. Stout (Edinburgh), "Duty and Inclination" ; Dr. Cyril Norwood (Oxford), "Delphi" ; Prof. A. C. Chibnall (London), "The Bio-Chemistry of Waxes" ; Prof. M. W. Travers (Bristol), "The Kinetics of some Gas Reactions" ; Prof. F. E. Fritsch (London), "The Algal Life-Cycle."

**UNIVERSITY EXTENSION.** 30 Tutorial Classes, 5 Preparatory Classes, 13 Extension Lecture Courses, and 2 Terminal Courses, with 848 students (238 women), chiefly in Lit., Econ., Social and Polit. Studies, and Music. The Ballard Mathews Lectures were delivered by Prof. J. H. Clapham. The Rowland Hughes Art Lectures were given by Mr. J. E. Barton. The Special Lecturers in the Fac. of Theol. were Rev. Principal R. S. Franks, Bristol ; Rev. R. H. Lightfoot, Oxford ; and Rev. E. O. James, Leeds.

**RESIGNATIONS.** Dr. R. F. Montgomerie (Agric.), on apptment. as Senior Veterinary Officer in the Wellcome Research Laboratories. Dr. E. R. Briggs (French), on apptment. as Lecturer in the Univ. of Cambridge. Mr. Bleddyn J. Roberts (Semitics), on apptment. as Prof. of Hebrew, Aberystwyth Theological Coll. Mr. W. G. Ellis (Zool.), on apptment. as Experimental Zoologist, Univ. of Liverpool. Dr. Otto A. Piper (Theol.), on apptment. to a post in the Theological Seminary, Univ. of Princeton.

**RETIREMENT.** Prof. O. H. Fynes-Clinton (French).

**STUDENTS.** Full-time : 527, including 116 graduates. Part-time : 38.

**DEGREES OBTAINED.** B.D., 1 ; B.A., 55 ; M.A., 4 ; B.Sc., 49 ; M.Sc., 3 ; Ph.D., 3.

# UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

Founded 1883

PRESIDENT—The Rt. Hon. LORD GLANELY, LL.D., D.L., J.P.

TREASURER—LIONEL D. LEWIS.

PRINCIPAL—J. F. REES, M.A. Ox., M.Com. Birm.

REGISTRAR—LOUIS S. THOMAS.

LIBRARIAN—S. O. MOFFET, M.A. Manc.

Telegrams : Coleg, Cardiff.

Telephone : Cardiff 340.

## TEACHING STAFF

### *Agriculture*

Advisory and Research Staff :

Rees, J., B.A., M.Sc. (A. Botany).

Edwards, E. E., M.Sc. (A. Zool.).

Bisset, N., M.R.C.V.S. (Vet. Sc.).

### *Anatomy*

West, C. McL., M.C., Sc.D., M.B.,

B.Ch., B.A.O. Dub. Prof.

Burlend, T. H., M.A. Camb., B.Sc.

Lond. (Histol. & Embryol.)

Lectr.

Yoffey, J. M., M.Sc., M.D. Manc.,

F.R.C.S. Lectr.

Mogg, R. A., M.B., B.Ch.

Asst. Lectr. and Demr.

Strangeways, Dorothy H., M.A.

Camb., Ph.D. Leeds (Histol.)

Asst. Lectr.

### *Archæology*

Nash-Williams, V. E., M.A. (Keeper

of Dept. of A. in Nat. Museum)

Lectr.

### *Architecture*

Purchon, W. S., M.A. Lond.,

A.R.I.B.A. Lectr.

### *Botany*

McLean, R. C., M.A. Camb., D.Sc.

Lond., F.L.S. Prof.

Martin, Mary S., B.Sc. Edin.

Lectr.

Cook, W. R. Ivey, Ph.D. Lond.,

F.L.S. Asst. Lectr. and Demr.

Audus, L. I., B.A. Camb.

Asst. Lectr. and Demr.

Hyde, H. A., M.A. Camb. (Keeper

of Bot. in Nat. Museum)

(Econ. Bot.) Hon. Lectr.

Quastel, J. H., D.Sc. Lond., Ph.D.

Camb., A.I.C., A.R.C.S. (Bio-

logical Chem.) Hon. Lectr.

### *Chemistry*, v. also *Physiol.*

Jones, W. J., D.Sc. Manc., M.Sc.,

F.I.C., F.Inst.P. Prof.

Lectrs. :

Bassett, H. Ll., M.A. Camb.,

B.Sc. Lond., A.I.C. (Organic

C.)

Cullinane, N. M., D.Sc. N.U.I.,

M.Sc., F.I.C.

Bowden, S. T., D.Sc. Leiden, B.Sc.,

Ph.D.

Davies, W. Cule, Ph.D., D.Sc.,

A.I.C.

### *Classics*

Tillyard, H. J. W., M.A. Camb.,

D.Litt. Edin. (Greek) Prof.

Austin, R. G., M.A. Ox.

(Latin) Prof.

Williamson, Rev. Canon E. W.,  
M.A. Ox.  
(New Test. Gk.) Hon. Lectr.

Lectrs. :  
Freeman, Kathleen, M.A.  
Richardson, L. J. D., M.A. Dub.  
Percival, G., M.A. Camb.  
Asst. Lectr.

*Economics and Pol. Science*  
Roberts, W. J., M.A. Ox.  
Fulton Prof.  
Parris, S. C., B.Sc. (Econ.) Lond.  
Lectr.

*Education*  
Wheeler, Olive A., D.Sc. Lond.,  
M.Sc. Prof.  
Lectrs. :  
Jones, E. J., M.A. (and Welsh  
Method).  
Barke, Ethel M., M.A. Dub., A.M.  
Columbia.  
Amos, Rev. A. D., B.Sc. Lond.,  
M.A. (and Master of Method).  
Morris, Eliz. M. D., M.A. Lond., B.A.  
Williams, D. E. Parry, B.Sc.,  
M.Mus.  
Jackson, Annie, B.Sc. Lond.  
Oppenheimer, Mary. Asst. Lectr.  
Seth, George, M.A., B.Ed., Ph.D.  
Edin. Asst. Lectr.  
Birks, F. H. Asst. Lectr.  
Elias-Jones, Megan, M.A.  
Asst. Lectr.

*Engineering*  
Thomas, W. Norman, M.A., D.Phil.  
Ox., M.Sc. Birm. Prof.  
Lectrs. :  
Thomas, S., M.Sc.  
Foster, P. F., B.Sc. Lond., M.Sc.  
Asst. Lectrs. & Demrs. :  
Ockleston, A. J., B.E. (Civil) N.Z.  
Sheen, F. V., B.Sc.  
1 Technical Asst.

*English Lang. and Lit.*  
Llewellyn, E. C., M.A., B.Litt. Ox.,  
B.A. Prof.  
Jones, Gwyn, M.A. Asst. Lectr.

Bethell, S. L., M.A. Camb.  
Asst. Lectr.  
James, D. G., M.A. Asst. Lectr.

*French and Romance Philology*  
Watkin, M., M.A., L. ès L. Ren.,  
Ph.D. Zür., O.I.P. Prof.  
Thomas, J. Heywood, M.A.,  
D. de l'U. Paris. Lectr.  
Pelan, Margaret M., M.A. Belf.,  
D. del'U. Strasb. Asst. Lectr.  
La Vieille, G., L. ès L. Paris  
Lecteur.  
Henry, Marguerite, L. ès L. Paris  
Lectrice.

*Geology*  
Cox, A. H., D.Sc. Birm., Ph.D.  
Stras. Prof.  
Heard, A., M.Sc. Manc., Ph.D.  
Lectr.  
Dingwall, Miss J. M. M., M.A.,  
B.Sc. Edin. Lectr.

*German*  
Edwards, O. H., M.A. Belf., Ph.D.  
Bonn. Lectr.  
Schoberth, F. W., Ph.D. Erlang.  
Lectr.  
Nicol, A., Ph.D. Munich Lektor.

*Histology, v. Anat.*

*History*  
Rees, Prof. W., D.Sc. Lond., M.A.  
Acting H. of Dept.  
Whale, Miss G. B. M., B.Litt.  
Ox., B.A. Lectr.  
Williams, David, A.M. Col., M.A.  
Lectr.

Asst. Lectrs. :  
Marshall, Dorothy, Ph.D. Camb.  
Hill, C., M.A. Ox.

*History of Wales*  
Rees, Wm., D.Sc. Lond., M.A.  
Prof.

*Industrial Relations*  
Marquand, H. A., M.A. Prof.

*Italian*  
Obertello, A., Dott. Genoa Lectr.

*Law*

Davis, A. G., LL.M. Lond. Lectr.  
Powell, J. F., B.A., B.D.  
Asst. Lectr.

*Mathematics*

Livens, G. H., M.A. Camb. Prof.  
Taylor, D. G., M.A. Camb. and  
Glas., D.Sc. Glas. Lectr.  
Pope, A. H., M.Sc. Lond. Lectr.  
Neumann, B. H., Ph.D. Berlin and  
Camb. Asst. Lectr.

*Metallurgy and Fuel Technology*

Jones, W. R. D., D.Sc. Prof.  
Jones, B., M.Sc., F.I.C. Lectr.  
Evans, Thomas, B.Sc., A.I.C.  
(Fuel Technol.) Lectr.

*Mining*

Jones, T. David, M.Sc., Ph.D.  
Birm. Prof.  
Chubb, C. S., M.Sc. Lectr.

*Music*

Evans, D., D.Mus. Ox. Prof.  
Lloyd, J. Morgan, Mus.D. Dub.  
Lectr.  
Morgan, Joseph, D.Mus., F.R.C.O.  
Lectr.

*Instrumental Trio :*

Mutter, G. N., L.R.A.M.  
Morgan, Joseph, D.Mus., F.R.C.O.  
Collier, D. G., B.Mus., L.R.A.M.  
5 Teachers.

*Philosophy*

[Prof.  
Scott, J. W., M.A., Ph.D. Glas.  
Thorburn, J. M., M.A., B.Sc. Edin.,  
B.A. Lond. Lectr.  
Howells, Rev. G., D.D. St. And.  
and Wales, M.A. Camb.,  
B.Litt. Ox., Ph.D. Tüb.  
(Compar. Religion) Hon. Lectr.

*Physics*

[Prof.  
Dunbar, R. T., M.A., Ph.D. Edin.  
Lectrs. :  
Young, C. L., B.Sc.  
Harker, G. F. H., M.A. Camb.  
Crackston, J. E., M.Sc. Camb. and  
Liv.  
Wood, R. G., M.Sc. Manc.

*Physiology*

Brown, T. Graham, D.Sc., M.D.  
Edin., M.R.C.P.I., F.R.S. Prof.  
Pryde, J., B.Sc. St. And., D.Sc.  
(Lectr. in Physiol. Chem.)  
Asst. Lectr. & Demr.  
Peterson, J. M., D.Sc. Aberd.  
(Expl. P.) Lectr.  
Shaxby, J. H., D.Sc. Lond.,  
F.Inst.P.  
(Special Sense P.) Lectr.  
Asst. Lectrs. & Demrs. :  
Jordan, R. C., B.Sc., Ph.D. Lond.  
Startup, C. W., B.Sc., Ph.D.  
Aberd.

*Semitic Languages*

Robinson, T. H., M.A., Litt.D.  
Camb., D.D. Lond. and Aberd.,  
D.Theol. Halle Prof.  
Johnson, A. R., Ph.D.  
Asst. Lectr.

*Welsh*

Gruffydd, W. J., M.A. Ox. Prof.  
Williams, G. J., M.A. Lectr.  
Morgan, T. J., M.A. Lectr.

*Zoology & Comparative Anatomy*

Tattersall, W. M., D.Sc. Manc. Prof.  
Lectrs. :  
Sheppard, Edith M., M.Sc.  
Thomas, I. M., M.Sc. Asst. Lectr.  
Foxon, G. E. H., M.A. Camb.  
Asst. Lectr.  
Edwards, E. E., M.Sc. (Entomol.)  
Adviser in Agr. Zool.

**Training College of Domestic Arts  
for South Wales and Mon-  
mouthshire**

Principal : Davies, E. M., B.Sc.  
(Hous. and Soc. Sci.), Lond.  
8 Teachers.

**University Extension**

Organizing Tutors :  
D. E. Evans, M.A. ; Iwan Morgan,  
M.A. Joint Secy.—Louis S.  
Thomas, Regr.  
35 Tutors.

## ASSOCIATED INSTITUTIONS

TECHNICAL COLLEGE, CARDIFF. Principal, J. C. Jones, B.Sc. Lond.

SOUTH WALES AND MONMOUTHSHIRE SCHOOL OF MINES, TREFOREST.  
Acting Principal, Robert James.

Both Institutions join with the University College in granting Diplomas, *v. infra*: College Diplomas.

## GENERAL INFORMATION

Opened in 1883 and incorporated by Royal Charter in 1884, this is now one of the constituent Colleges of the Univ. For early history, see *Yearbook*, 1929.

A Supplemental Charter was granted to the College on Jan. 21, 1931, and a Charter of Incorporation to the Welsh National School of Medicine on Feb. 5, 1931.

Medical students pursue their preliminary medical studies at the Coll. and their clinical studies at the Welsh National School.

LIBRARY: Drapers' Company's, 85,477 vols. MUSEUMS: Anat., Zool., Agric. The National Museum of Wales (Art, Archæol., Zool., Geol., Bot.) is located in an adjoining building. LABORATORIES: Physical Research, with liquid-air plant, etc.; Engineering (including 100-ton testing machine); and usual Science and Medical teaching and Research labs.

FACULTIES. Arts, Science, Theology. *Departments*: Music, Applied Science and Technology, Teachers' Training; Training College of Domestic Arts; Advisory and Research Dept. in Agric.; Law.

COLLEGE DIPLOMAS. Engin., Metalliferous Mining, Metallurgy; Lang., Lit., and Hist. of Wales; Econ. and allied subjects; Music; Social Study and Training. In the Applied Science subjects the qualifying scheme of study covers 3 years; in the other subjects, 2 yrs. A Diploma in Biology and a Diploma in Palæography and Allied Subjects awarded after a one-year's course. A Joint Diploma in Coal Mining is granted by the Coll. and the S.W. and Monmouthshire School of Mines, 4 yrs.' residence being required. After a 4 yrs.' course students who desire to specialize in certain subjects can take a post-diploma course. A Joint Diploma in Mech. Engin. or Marine Engin., or Architecture or Commerce, is granted by this Coll. and the Cardiff Tech. Coll. after a 3 yrs.' course, and a Diploma in Chem. Engin. after completion of a post-diploma course extending over at least 1 yr., under approved regulations.

SCHOLARSHIPS (Prospectus obtainable from the Registrar). One of £60 is offered for research by a woman in any faculty, one of £50 for Science research. *See also* under Univ.

FEES. Annual Composition for tuition—Arts, £15; Science, £20; Music, £15; Applied Science, £20 (Non-associated Counties, £30); Medical (first 3 yrs.), £25 to £35; Research, 6 to 10 gs.; Domestic Arts, £35 (Non-associated Authorities, £60); Registration, 1 g. p.a.

RESIDENCE. 5 Hostels for women. Sessional Fees, £55 to £72. Board and lodging in the City can be obtained at about £1: 10s. per week.

PHYSICAL WELFARE OF STUDENTS. There is an Asst. Lectr. in Physical Training who also acts as College Adviser in Physical Training and Games.

PUBLICATIONS. *Calendar* (Feb.), 2s.; *A Short History of the College*, 2s. 6d.; *Students' Handbook*; *Cap and Gown*. Information regarding Courses and Careers open to Students of Science.



## THE YEAR 1936-37

**BENEFACTIONS.** £5738:5:2 for Appeal Fund for £250,000. £332:0:6 for Scholarships and Prizes.

**NEW BUILDINGS.** Extensions are being carried out to Aberdare Hall, involving erection of a new wing and provision of a domestic block, at an estimated cost of £14,000.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. Cesare Foligno (Univ. of Oxford), "A Teacher of Italian—John Florio." Dr. Li Chi (Research Prof. in Archæol. of the Academia Sinica), "Chinese Pottery." Mr. W. Watkin Davies (Birmingham), "Our Palestine Mandate." Prof. P. M. S. Blackett, F.R.S. (Head of Dept. of Physics, Birkbeck College, Univ. of London), "Cosmic Rays." Rev. Prebendary W. O. E. Oesterley, "The Psalms and Messianic Interpretation." M. Emile Cammaerts, C.B.E. (Prof. of Belgian Studies and Institutions, Univ. of London), "Flemish Art in the XVth and XVIIth Centuries—A Contrast," and "The Art of Rubens." Mr. Bertrand Russell, F.R.S., "Education and Democracy." Prof. Elsie M. Butler (Head of Dept. of German, Univ. of Manchester), "The German Expressionist Dramatists."

**RESIGNATIONS.** Dr. Margaret I. Bain (Education), on appointment as Dean of Women at Moray House Training Centre, Edinburgh; Dr. Irene Harding (Maths.); Mr. J. H. Lloyd (Zool.), on appointment as Secretary of Appointments Board, Univ. of Wales; Miss C. M. Maclean (English); Dr. Edgar Mertner (German); Mr. H. M. Gemmell (Engn.); M. Chicoteau (French).

**DEATHS.** Prof. W. W. Grundy (Classics), Mr. D. J. A. Brown (late Registrar).

**STUDENTS.** Full-time, 1129, including 220 graduates. Part-time, 99, including 12 graduates.

**DEGREES OBTAINED.** B.A., 130; M.A., 9; B.Sc., 109; M.Sc., 13; B.Mus., 2; M.B., B.Ch., 13; M.D., 2; B.D., 6; Ph.D., 1. **DEGREES OBTAINED IN THE UNIVERSITY OF LONDON.** B.Sc., 16; B.Com., 1; M.B., B.S., 5.

# UNIVERSITY COLLEGE OF SWANSEA

Founded 1920

PRESIDENT—Sir GEORGE BARSTOW, K.C.B.

PRINCIPAL—C. A. EDWARDS, D.Sc. Manc., F.R.S.

REGISTRAR—EDWIN DREW.

LIBRARIAN—OLIVE M. BUSBY, M.A. Lond.

Telephone : Swansea 5059.

## TEACHING STAFF

### *Biology*

Mockeridge, Florence A., D.Sc.  
Lond., F.L.S. (Bot.) Prof.  
Rees, T. Kenneth, M.Sc., F.L.S.  
(Bot.) Lectr.  
Little, Percy A., B.Sc., Ph.D.  
(Zool.) Lectr.  
Fothergill, P. G., Ph.D. Durh.  
Asst. Lectr.

### *Chemistry*

Coates, J. E., O.B.E., D.Sc. Birm.,  
M.Sc., F.I.C. Prof.  
Hinkel, L. E., D.Sc. Lond., F.I.C.  
(Organic C.) Lectr.  
Ayling, E. E., M.Sc. Lond., F.I.C.  
Lectr.  
Hartshorne, N. H., M.Sc. Birm.,  
Ph.D. Lond. Lectr.

### *Classics*

Farrington, B., B.A. Dub., M.A.  
N.U.I. Prof.  
Hill, H., M.A. Sheff. Lectr.  
Asst. Lectrs. :  
Armstrong, A. H., M.A. Camb.  
Wormell, D. E. W., B.A. Camb.,  
Ph.D. Yale.  
Jones, J. H., Ph.D. Lond., M.A.

### *Economics*

Isles, M.A., M.Sc. Camb., B.Com.  
Tas. Prof.

### *Education*

Williams, W. M., M.A. Ox. Prof.

Jones, Idwal, M.A. Lectr.  
Stephens, D. J., M.Sc. Lectr.  
Owen, Annie, M.A., D. de l'U.  
Paris Lectr.

### *Engineering*

Bacon, F., M.A. Camb. Prof.  
Isaacs, R. G., M.Sc. Bris., B.Sc.  
Lond. (Elec. E.) Lectr.  
Fordham, A. A., B.Sc., Ph.D.  
Lond. (Civ. E.) Lectr.  
Caswell, J. S., M.Sc. Lectr.  
Farvis, W. E. J., B.Sc. Brist.  
Asst. Lectr.

### *English*

[Prof.  
Thomas, W. D., M.A. Ox., B.A.  
Taig, T., M.A. Glas. Lectr.  
Westcott, Isabel M., B.A. Bris.,  
B.Litt. Ox. Lectr.

### *French*

[Prof.  
Williams, Mary, D. de l'U. Paris,  
M.A., Chev. Lég. d'H., O.A.  
Diverres, P., M.A. Liv., D. ès L.  
Rennes, Off. de l'Instr. Pub.  
Lectr.  
Pool, E. Millicent, M.A. Liv., O.A.  
Lectr.

### *Geology and Geography*

[Prof.  
George, T. N., Ph.D. Camb., D.Sc.  
Stuart, A., M.Sc. Durh., F.G.S.  
(Geol.) Lectr.  
Williams, D. T., M.A. (Geog.) Lectr.  
Simpson, Brian, M.Sc. Liv. (Geol.)  
Lectr.

*German*

- Halliday, F. W., M.A. Manc.  
Ind. Lectr. and Hd. of Dept.  
Coveney, Dorothy K., Ph.D. Lond.  
Lectr.  
Marleyn, R., M.A. Ox., Ph.D.  
Göttingen Asst. Lectr.

*History*

- Hughes, E. E., M.A. Ox., B.A.  
Prof.  
Medlicott, W. N., M.A. Lond. Lectr.  
Roberts, Glyn, M.A. Lectr.

*Mathematics*

- Richardson, A. R., D.S.O., B.Sc.  
Lond., A.R.C.S. Prof.  
Wilson, R., M.A. Ox. Lectr.  
Littlewood, D. E., M.A. Camb.  
Lectr.  
Lees, A., Ph.D. Lond. Asst. Lectr.

*Metallurgy*

- [Prof.  
Edwards, C. A., D.Sc. Manc., F.R.S.  
Taverner, L., A.R.S.M., D.I.C.,  
M.I.M.M. Asst. Prof.  
Higgins, R., Ph.D. Glas. Lectr.  
Griffiths, Roosevelt, M.Sc. Lectr.

- Jones, G. L., B.Sc. Lond.,  
A.R.S.M. Asst. Lectr.

*Philosophy*

- Heath, A. E., M.A. Camb. Prof.  
Gallie, W. B., B.A., B.Litt. Ox.  
Asst. Lectr.  
Britton, K., B.A. Camb., A.M.  
Harv. Asst. Lectr.

*Physics*

- Evans, E. J., D.Sc. Lond., B.Sc.,  
A.R.C.S. Prof.  
Davidson, P. M., B.A. Camb.,  
Ph.D. Lond. Lectr.  
Wright, L., M.Sc. Sheff. Lectr.  
Jones, F. L., M.A., D.Phil. Ox.  
Lectr.

*Welsh*

- Lewis, Henry, M.A., D.Litt. Prof.  
Williams, Stephen J., M.A. Lectr.  
Richards, G. M., M.A. Asst. Lectr.

*University Extension*

- Thomas, P. S., M.A.  
Senr. Staff Tutor.  
David, Iltyd, M.A., LL.B. Camb.,  
LL.D. Dub., M.A. Staff Tutor.

## GENERAL INFORMATION

Incorporated by Royal Charter, dated Jan. 21, 1920, the College was made a constituent College of the Univ. of Wales by a Supplemental Charter to the Univ. on Aug. 13, 1920. The administrative offices, assembly hall, common rooms, and refectory, in addition to some of the Science departments, are accommodated in a mansion in Singleton Park, presented, together with 19 acres of land surrounding it and 15 acres for playing-fields, by the Corporation of Swansea, which also gave £50,000 towards the cost of Science buildings. Extensive laboratories have been erected in the Park, on a site adjacent to the main College building, for the departments of Metallurgy, Engineering, Chemistry, and Physics, and a building to accommodate the Arts Departments and Library.

Situated in the heart of a district possessing a long and interesting metallurgical history and presenting an unrivalled variety of present-day metallurgical practice, the College offers exceptional advantages for preparation for professional careers in the metallurgical industry. The manufacturers of the district, who contribute largely to the support of the College, give the staff and students ample opportunities of keeping in close practical touch with manufacturing processes in the works. To ensure the closest possible co-operation with the local industries, Advisory Committees in Metallurgy and Engineering have been set up. All the College laboratories (Physics, Chem.,

Geol., Biol., Metall., Engin.) are well equipped and include fine experimental plant for instruction and research in combustion engineering.

**FACULTIES.** Science and Arts. Departments: Metallurgy and Engineering, and Training of Teachers (men and women) for Elem. and Sec. Schools.

**COURSES FOR DEGREES, ETC.** Courses for the degrees of the Univ. in Pure and Applied Science and Arts (3 yrs.); also for the College diplomas in Metall. or Engin. (3 yrs.), Mathematical Physics (final Hons. yr. and 1 postgrad. yr.); and complete Prelim. Science Course for medical students and classes in Law for articulated clerks. Engineering students are expected, and, where necessary, helped, to obtain practical experience in works during the greater part of the summer vacation. Afternoon visits to works are arranged frequently throughout the session. Occasional lectures are given by experts on the business, administration and managerial side of industrial undertakings.

**FEES.** For tuition in Pure or Applied Science, £20; Arts, £15; Registration, £1: 1s. p.a.; for Research, from 6 to 10 gs.

**RESIDENCE.** Beck Hall of Residence for women students (Warden: Miss M. K. Wilkinson, M.A.), fee, £49: 7s. p.a. A list of Registered Lodgings is kept by the Registrar.

## THE YEAR 1936-37

**BENEFACTIONS.** Donations from £12: 2: 6 to £1200 for general purposes, research, etc. Annual Subscriptions, £3587: 12: 5. Contribution to New Library Fund, £369: 15s.

**NEW DEPARTMENT.** A Dept. of Economics established in the College from beginning of session 1937-38.

**VISITS OF TEACHERS FROM OTHER COLLEGES.** Prof. G. W. Robinson (Bangor), "Soils" (2 lectures); Prof. T. Campbell James (Aberystwyth), "Stereoisomerism in Unsaturated Compounds" (4 lectures); Prof. E. J. Wood (Aberystwyth), "The *Ars Poetica* of Horace" (3 lectures); Mr. Ifan ap Owen Edwards (Aberystwyth), "Mechanical aid to the teaching of Language."

**RESIGNATIONS.** Dr. R. E. Stedman, on apptment. as Independent Lectr. in Philosophy at University Coll., Dundee; Dr. T. G. Cowling, on apptment. as Lectr. in Maths. at University College, Dundee.

**UNIVERSITY EXTENSION WORK.** 25 University Tutorial Classes, 6 Preparatory Classes, and 3 University Extension Courses, with 644 students, and 1 One-Year non-grant-earning Class with 33 students. Many single lectures were given by members of the College staff in Swansea and elsewhere.

**STUDENTS.** Full-time: 629, including 108 graduates. Part-time: 26, including 3 graduates.

**DEGREES OBTAINED.** B.A., 72; M.A., 5; B.Sc., 52; M.Sc., 9; Ph.D. 4.

# THE WELSH NATIONAL SCHOOL OF MEDICINE, CARDIFF

Founded 1931

PRESIDENT—The Rt. Rev. THE LORD BISHOP OF MONMOUTH, D.D.

PROVOST—A. W. SHEEN, C.B.E., M.S., F.R.C.S.

HON. TREASURER—Sir WILLIAM JAMES THOMAS, Bt., LL.D.

SECRETARY—S. C. EDWARDS.

Telephone : Cardiff 3280.

## TEACHING STAFF

(For subjects of first 3 yrs.—Anat.,  
etc., v. Univ. Coll., Cardiff)

*Forensic Medicine and Toxicology*

Buist, J. J., M.B. Lond. Lectr.

*Hygiene and Public Health*

Picken, R. M. F., B.Sc., M.B.,  
Ch.B. Glas., D.P.H. Camb.

(Preventive Med.)

Mansel Talbot Prof.

Lectrs. :

Williams, E. Colston, M.D. Lond.,  
D.P.H. Camb., F.R.C.S.E.

Wilson, J. Greenwood, M.D.,  
F.R.C.P., D.P.H.

Morgan, W. Parry, M.A., M.D.  
Camb., B.Sc. Lond.

Sugden, J. H., M.Sc. Manc., F.I.C.

Buist, J. J., M.B. Lond.  
(Vaccination) Instr.

*Infectious Diseases*

Harries, G. Emrys, M.B., B.S.,  
M.R.C.S., L.R.C.P., D.P.H.

Lond. Lectr.

*Materia Medica and Pharmacology*

Heathcote, R. St. A., M.A., B.Sc.,  
D.M., B.Ch. Ox., M.R.C.P.

Ind. Lectr.

..... Asst. Lectr.

Howells, L. H., M.D. Lond., B.Sc.,  
M.R.C.P. Demr.

Griffiths, E. T., Ph.C., M.P.S.  
(Pharmacy) Asst.

*Medicine (Med. Unit)*

Kennedy, A. Mills, M.D. Glas.,  
F.R.C.P. Prof. and Director.

Senr. Asst. :

Howells, L. H., M.D. Lond., B.Sc.,  
M.R.C.P.

Junr. Assts. :

Harry, Nansi E., B.Sc., M.B.,  
B.Ch.

Kellerman, F., M.D. Vienna,  
L.R.C.P. & S. Edin., L.R.F.P.  
& S. Glas.

Ingham, J., A.I.C. Bio-Chemist.

*Mental Diseases*

Hennelly, T. J., M.D., D.P.M.  
N.U.I. (Psychological Med.)

Lectr.

*Obstetrics and Gynaecology*

Strachan, G. I., M.D., Ch.B. Glas.,  
F.R.C.P. Lond., F.R.C.S. Eng.

and Edin., F.C.O.G. Prof.

Maliphant, R. G., M.D. Lond.,  
M.R.C.P., F.R.C.S., M.C.O.G.

Lectr.

Assts. :

Evans, M. D. Arwyn, M.D., B.Ch.,  
F.R.C.S., M.C.O.G.  
Jones, Grace M., M.R.C.S.,  
L.R.C.P.  
Webster, Helena J., M.B., B.Ch.,  
M.R.C.S., L.R.C.P., D.P.H.  
Jones, John, B.Sc., M.B., B.Ch.

*Pathology and Bacteriology*

Duguid, J. B., M.D. Aberd. Prof.  
Morgan, W. Parry, M.A., M.D.  
Camb., B.Sc. Lond.

(Bact.) Lectr.  
Gough, Jethro, B.Sc., M.D.,  
M.R.C.S., L.R.C.P. (Path.)

Lectr.  
Burtenshaw, J. M. L., M.A., B.M.,  
B.Ch. Ox., M.R.C.S., L.R.C.P.,  
D.P.H. Asst. Lectr.  
John, R. W., M.R.C.S., L.R.C.P.  
Demr.

*Surgery (Surg. Unit)*

Rogers, Lambert, M.Sc., F.R.C.S.  
Eng. and Edin., F.R.A.C.S.,  
F.A.C.S. Prof. and Director.  
d'Abreu, A. L., Ch.M. Birm.,  
F.R.C.S. Senr. Asst.  
Wolfe, H. R. I., M.B., B.S. Lond.,  
F.R.C.S. Jnr. Asst.  
Parker, A. O., M.D., C.M.,  
M.C.P.S. Manlt.  
(Orthopædics) Lectr.

*Tuberculosis*

Cummins, S. Lyle, C.B., C.M.G.,  
M.D., LL.D. N.U.I.

David Davies Prof.  
Williams, Enid M., B.Sc., M.D.,  
M.R.C.S., L.R.C.P.

Asst. Lectr.  
Powell, D. A., M.D. Lond.,  
M.R.C.S., L.R.C.P.  
Hon. Lectr.

Recognized Teachers :

Brownlee, A., M.D. Durh.,  
F.R.C.S.E., L.R.C.P., L.D.S.,  
D.P.H. Camb.  
Davies, William, M.R.C.S.,  
L.R.C.P.

Gilchrist, James C., M.D., Ch.B.  
Edin.

Hiley, R. Melville, M.R.C.S.,  
L.R.C.P.

Johnson, A. C., M.A., M.B., B.Ch.  
Camb.

Ross, H. A., M.B., Ch.B., B.Sc.  
Glas., D.P.H. Camb.

Tytler, W. H., B.A., M.B. Tor.

Recognized Clinical Teachers and  
Part-time Lecturers

*Anæsthetics*

West, J. Hardstaff, M.R.C.S.,  
L.R.C.P., D.A. Lectr.

Clinical Tutors :

Pearson, F.Y., M.R.C.S., L.R.C.P.,  
F.R.C.S.E.

Stanley, H. M. S., M.R.C.S.,  
L.R.C.P.

Wallace, T., M.B., B.Ch., B.A.O.  
Belf.

*Dental Surgery*

Spiridion, C., L.D.S.  
McFarlane, J., L.R.C.P. and S.  
Edin., L.D.S.  
Murray, A. L., L.D.S.  
Smith, J. I., L.D.S.

*Dermatology*

Bettley, F. R., M.D. Lond.,  
M.R.C.P., M.R.C.S. Lectr.

*Diseases of Children*

Watkins, A. G., M.D., B.S. Lond.,  
B.Sc., M.R.C.P. Lectr.

*Medicine*

Davies, Ivor J., M.D. Lond.,  
F.R.C.P.

Evans, Herbert T., M.A. Lond.,  
D.M. Ox., M.R.C.P.

Evans, Abel, M.B., B.S. Lond.,  
M.R.C.P.

Phillips, W., B.Sc., M.D., B.Ch.,  
M.R.C.P.

Howells, L. H. (also Mat. Med.)

*Ophthalmology*

Thomas, J. W. Tudor, M.D., M.S.  
Lond., D.Sc., M.D., F.R.C.S.

Parry, J. R., M.B., B.S. Lond.,  
F.R.C.S.E.

.....

*Oto-Rhino-Laryngology*

Owen, R. D., B.Sc., F.R.C.S. Ed.,  
M.R.C.S., L.R.C.P. Lectr.  
Prichard, A. A., M.D., B.Ch. Camb.

*Pathology, Clinical*

Schölberg, H. A., M.B. Lond.,  
M.R.C.S., L.R.C.P., D.P.H.  
Camb.

*Physio-Therapy*

Evans, T. Garfield, M.D., B.S.  
Lond., D.M.R.E. Camb.  
Lectr.

*Radiology* [Lectr.  
Rhys, Owen L., M.D., Ch.B. Edin.

*Surgery*

Wade, J. O. D., O.B.E., M.B.,  
M.S. Lond., F.R.C.S.

Harries, D. J., M.D., B.S. Lond.,  
D.Sc., F.R.C.S.

Hammond, T. E., F.R.C.S.

Haycraft, J. B., M.C., M.B., Ch.B.  
Edin., F.R.C.S.

Ioan-Jones, D., M.B., B.Ch.,  
F.R.C.S.

Lysaght, A. C., L.R.C.P., F.R.C.S.

*Veneral Diseases*

Bettley, F. R., M.D. Lond.,  
M.R.C.P., M.R.C.S. Lectr.

Watterson, Miss D., M.B., Ch.B.  
Edin. Lectr.

## GENERAL INFORMATION

The Welsh National School of Medicine originated in the institution of Depts. in Anat. and Physiol. at the Univ. Coll. of S. Wales and Monmouthshire, Cardiff, in 1893. The Dept. of Mat. Med. and Pharmacol. was instituted in 1898, and the Chair of Pathol. and Bacteriol. in 1910. The David Davies Chair of Tuberculosis and the Mansel Talbot Chair of Prev. Med. were endowed in 1921, and in that year Medical and Surgical Units and a Dept. of Obstet. and Gynæcol. were instituted. On Feb. 5, 1931, a Charter of Incorporation was granted to the School by H.M. the King in Council.

While the Courses of instruction are designed to meet the Regulations for the Degrees in Medicine and Surgery of the Univ. of Wales, they are also recognized as satisfying the Regulations of the Univ. of London and of the Con-joint Board Examinations for the R.C.P. and R.C.S., and of other Examining Bodies.

Every candidate who proposes to pursue the courses appropriate to the second year of study for Med. Students, viz.: Organic Chem., Anat., and Physiol., shall, prior to his admission to first-year courses in Physics, Chem., Bot., and Zool., present a certif. showing that he has passed the Matric. Examn. of the Univ. of Wales, or an examn. recognized by the Univ. of Wales as equivalent thereto; and, if the certif. does not show that he has passed at the Matric. standard in *two* of the following subjects: Physics, Chem., Bot., Zool. Biol. (one of which must be *either* Physics *or* Chem.), he shall present a supplementary certif. or certifs. showing that he has passed an examn. of Matric. standard in these subjects.

No candidate will normally be accepted for admission to the Depts. of the second year of the Med. course unless he has completed, at one and the same time, an examn. leading to a Univ. degree in all the four first-year courses, Physics, Chem., Bot., and Zool. This regulation may be relaxed at the discretion of the Joint Academic Committee of the Univ. College, Cardiff, in certain cases where only *one* of the four first-year courses named above is outstanding.

*Note.*—An approved Second School Leaving Certif. Examn. will be recognized, subject for subject, as equivalent to an examn. leading to a Univ. degree.

**DEGREES AND DIPLOMAS.** The School provides courses of study for the degrees of M.B., B.Ch., B.Pharm., and for the Tuberculous Dis. Dipl. and the Dipl. in Public Health of the Univ. of Wales (*see* thereunder).

**FEES.** Tuition: Annual Composition Fee, £25 for the first year and £35 for each of the following years; D.P.H. Composition Fee, £21 for Part I., £25 for Part II.; T.D.D. Composition Fee, £15:15s. Registration, £1:1s. payable by all students. Hospital Practice (4th, 5th and 6th years), £12:12s. Examination, M.B., B.Ch., £26:16s.; M.D., £20; M.Ch., £20; D.P.H., £12:12s.; T.D.D., £10:10s.

**SCHOLARSHIPS, PRIZES, AND MEDALS.** "Dr. Price Prize," £50; "Isaac Roberts Scholarship," £50; "Samuel Bros. Scholarship," £12-£15; "Dr. Howell Rees Scholarship," £17:10s.; "Alfred Sheen Prize," £5; "The Cardiff Medical Society Prizes" in Med., Surg., and Obstet. and Gynæc., value £2:2s. each; "Willie Seager Prizes" in Med., Surg., and Pathol. and Bacteriol. (Gold Medal and £4 each); "John Maclean Prize" in Obstet. and Gynæc. (Silver Medal and £2:10s.); "The David Hepburn Medal" and "The Alfred Hughes Medal."

**POST-GRADUATE SCHOLARSHIPS.** "Mrs. John Nixon" for Research in Med. and Med. Pathol., annually, £150 for 1 yr. "Lord Merthyr" for res. in Cancer, annually, £200 for 1 yr. For "Ewen Maclean" (Obstet. and Gynæc.) and "Cecil Prosser" (Tuberculosis) Scholarships, *see* App. II. 16.

**Terms.** Oct. 5-Dec. 17, 1937; Jan. 11-March 25; Apr. 21-June 30, 1938.

**PUBLICATIONS.** *Prospectus* and *Regulations* (free).

## THE YEAR 1936-37

**RESIGNATIONS.** F. Hawkins (Mat. Medica); W. Phillips (Med. Unit.); J. D. Spillane (Med. Unit); P. K. McCowan (Mental Diseases); A. F. Goode (Surg. Unit).

**RETIREMENT.** D. Leighton Davies (Ophthalmology).

**DEATH.** H. Gordon Greaves (Anæsthetics).

**STUDENTS.** Full-time: 141 (incl. 2 Research). Part-time: 184.

**DEGREES OBTAINED.** M.D., 2; M.B., B.Ch., 12. *Diplomas*: T.D.D., 10; D.P.H., 5.



# UNIVERSITY COLLEGE OF THE SOUTH- WEST OF ENGLAND, EXETER

Founded 1901

PRESIDENT—The Rt. Hon. Baron ROBOROUGH of Maristow,  
D.L., M.A.

TREASURER—D. HEATHCOAT AMORY.

PRINCIPAL—JOHN MURRAY, M.A. Ox. and Aberd., LL.D. Aberd.

REGISTRAR AND SECRETARY—A. K. WOODBRIDGE.

ACADEMIC SECRETARY—I. LEVINE, M.A., D.Litt. Glas.

ACTING LIBRARIAN—Miss K. E. PERRIN, B.A. McG.

Telephone : Exeter 4141

## TEACHING STAFF

### *Archæology*

Raleigh-Radford, C. A., B.A. Ox.,  
F.S.A. Hon. Lectr.

### *Astronomy*

..... Hon. Lectr.

### *Botany and Horticulture*

Caldwell, J., D.Sc. Glas.  
Hd. of Dept.  
Cumming, A. M., A.R.C.S.I.,  
N.D.H. Asst. Lectr.  
Richardson, Miss M. M., Ph.D.  
Durh. Asst. Lectr.  
James, A. L., B.A. Ox.  
Research Asst.

### *Chemistry*

Britton, H. T. S., D.Sc. Lond.,  
D.I.C., F.I.C. Prof.  
King, Miss R., M.Sc. Lond. Lectr.  
Bircumshaw, L. L., M.A. Camb.,  
D.Sc. Lond. Lectr.  
Cocker, W., M.Sc., Ph.D. Manc.  
Asst. Lectr.

### *Classics*

The Principal Actg. Hd.  
Heap, G. V. M., M.A. Camb.  
Lectr.  
Knight, W. F. J., M.A. Ox. Lectr.

Costello, D. P., M.A. N.Z., B.A.  
Camb. Asst. Lectr.

### *Economics*

Sykes, J., M.A., Ph.D. Leeds,  
M.Com. Manc. Hd. of Dept.  
Baster, A. S. J., M.Com., B.Sc.  
(Econ.), Ph.D. Lond. Lectr.

### *Education and Psychology*

Watkins, S. H., M.A. Wales, Ph.D.  
Leip. Prof.  
Mathias, Miss S. Y., M.A. Liv.  
Lectr.  
Tibble, J. W., B.A., M.Ed. Leeds  
Lectr.

Asst. Lectrs. :

Gittins, J. S., M.A., B.Sc. Lond.  
(Educ.).  
Stephenson, Miss E. M., M.Sc.  
Lond. (Biol. and Hyg.).  
Kemp, Miss C. L., M.A. Lond.  
(English).  
11 Assts. and Pt.-time Lectrs. and  
Instrs. in Teachers' Training  
Dept.

### *Elocution and Dramatic Art*

Riley, W. A., L.R.A.M. (Eloc.),  
F.T.C.L. Lectr.

*English*

- Horrox, W. L., M.A. Camb. Prof.  
 Wright, Miss B. D., M.A. Edin.,  
     Ph.D. Lond. Lectr.  
 Lloyd, L. J., M.A. Camb. Lectr.  
 Dexter, Miss K. M., B.A. Lond.  
     Asst. Lectr.  
 Littler, H. L., M.A. Ox.  
     Tutor to Foreign Students.

*Geography*

- Lewis, W. S., M.Sc. Lond.  
     Reardon Smith Prof.  
 Clayden, A. W., M.A. Camb.  
     Visiting Director.  
 Shorter, A. H., B.A. Manc.  
     Asst. Lectr.  
 Morgan, F. W., M.A. Camb.  
     Asst. Lectr.  
 Woodley, E. T., B.A. Lond.  
     Graduate Scholar.

- Geology, Physical* [Asst. Lectr.  
 Stephenson, Miss E. M., M.Sc. Lond.]

*History*

- Douglas, D. C., M.A. Ox. Prof.  
 Handcock, W. D., M.A. Brist.,  
     B.Litt. Ox. Lectr.  
 Greenaway, G. W., M.A. Camb.  
     Lectr.  
 Saunders, J. J., M.A.  
     Graduate Scholar.

*History of Christianity*

- Carpenter, Very Rev. S. C., D.D.  
     (Dean of Exeter). Hon. Prof.

*Horticulture, v. Botany**Law*

- Morgan, J. G., M.A. Ox., LL.B.  
     Lond. Hd. of Dept. & Dir.  
     of Legal Studies.  
 Roberts, C. H., M.A. Ox. Lectr.  
 Turner, R. W., M.A., LL.M. Camb.  
     (also Trust A/c. and Book-  
     keeping) Tutor.

- Parry, H. Lloyd, O.B.E., B.A.,  
     B.Sc., LL.B. Lond.  
     (Const. L. and Pub. Ad-  
     min.) Hon. Lectr.

*Mathematics*

- Brown, T. A., B.A. Camb., M.A.,  
     B.Sc. Edin., F.R.A.S. Prof.  
 Mallison, H. V., M.A. Camb.,  
     B.Sc. Lond. Lectr.  
 Unthank, H. W., B.A. Camb.,  
     M.A., B.Sc. Lond., F.R.A.S.  
     (Applied M.) Lectr.  
 Hill, W. H., B.A. Camb.  
     Asst. Lectr.

*Modern Languages*

- Abercrombie, N. J., M.A., D.Phil.  
     Ox. Prof.  
 Trudgian, Helen M., D. ès L.,  
     Dipl. d'Et. Paris  
     (French Lit.) Reader.  
 Wilson, Aileen, M.A. Dub., D. de  
     l'U. Paris Lectr.  
 Stirk, S. D., M.A. Ox., Dr. phil.  
     Breslau Asst. Lectr.  
 Blumenthal, Miss M., Ph.D.  
     Cologne (German). Asst.  
 Chailley, C. Lector.

*Music*

- Wilcock, A. W., Mus.D. Manc.,  
     F.R.C.O. Hd. of Dept.

*Philosophy*

- [Hd. of Dept.  
 Levine, I., M.A., D.Litt. Glas.  
 Boden, F. C., M.A. Lond.  
     Pt.-time Asst. Lectr.]

*Phonetics*

- Lloyd, Mrs. Vera, L.R.A.M. (Eloc.)  
     Pt.-time Asst.

*Physics*

- Newman, F. H., D.Sc. Lond.,  
     A.R.C.S., F.Inst.P. Prof.  
 Searle, V. H. L., M.Sc. Lond.  
     Lectr.  
 Hoare, F. E., M.Sc., Ph.D. Lond.,  
     A.R.C.S. Lectr.  
 Goyer, Miss M., B.Sc. Leeds, Ph.D.  
     Vienna Demr.

*Politics, International*

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Lectr.

**Extra-mural Studies**

E. J. Patterson, M.A. Camb.

Hd. of Dept.

*Zoology*

Harvey, L. A., M.Sc. Lond., D.I.C.

F. G. Thomas, M.A. Leeds

Head of Dept.

Organizing Tutor.

Stephenson, Miss E. M., M.Sc.

R. Chaput, M.A. Syracuse, D. ès

Lond. Asst. Lectr.

Sc.Pol. Geneva (Internat.

Lowenstein, O., Ph.D. Munich

Politics)

Hon. Lectr.

Asst. Lectr.

3 Assts., 2 Tutors.

**GENERAL INFORMATION**

Organized as a College, 1901. Incorporated under its present title, 1922.

Courses are provided for the various External Degrees of the Univ. of London in Arts, Science, Economics, Commerce, Horticulture, Law, and Music, and for the Inter. B.Sc. examns. in Engineering and Agriculture and Inter. B.Pharm. examn. The Final examns. for B.Sc. in Engin. and Agric. may be taken at Plymouth Technical Coll. and Seale-Hayne Agricultural Coll. respectively. Courses are also provided for Elementary and Secondary teachers, for entrance into Civil Service, and for the first year of Medical study. Provision for special work in English (incl. Phonetics) for foreigners for 1 or more terms. (Prospectus from Registrar.) The Training Dept. is recognized as a Training College for Elem. and Secondary teachers. The Royal Albert Memorial Library (60,000 vols.) and Museum are closely associated with the College, and the important collections of books and scientific material are freely available for advanced students of the College.

**AFFILIATION.** The College is recognised as an associated Institution by the Univs. of Ox. and Cam. It is recognized by the Camb. Special Board for Med. and the Conjoint Med. Board as a place of instruction in Chem., Physics, and Biol., and by the Institute of Chemistry for instruction in preparation for its Examns.

**FACULTY BOARDS** in Arts, Sci., and Econ. supervise students.

**ADMISSION.** Matriculated students aged 17 or over, between 16 and 17 by special resolution of the Senate. Unmatriculated students must as a rule be over 18 and must satisfy the Senate as to their fitness to profit by the courses.

**FEES.** Sessional: Interm. course, Arts, Econ. or Comm., £25; Sci., £30; final course in Arts, Econ. or Comm., £25; Sci., £30; fees at reduced rate payable by students from Devon, Cornwall, Dorset, Exeter, or Plymouth; Law, 10 to 16 gs.; for foreign students (term) 8 gs.; Medical, 16-20 gs.; Pharmacy, Prelim. Sci., 12 gs.; Research, 8 to 10 gs.; Teachers' Training Dept. (Elem., Sec., Froebel and Handicraft), £13-£40; Registration, £2 (except: Postgrad. part-time, £1; Law, £1: 1s.).

**RESIDENCE.** For women—Hope Hall (45 students), Warden: Miss Ruth King, M.Sc.; Lopes Hall (70), Warden: Miss C. Kemp, M.A. Terms: £62-£65 p.a. For men—Reed Hall (70), Warden: H. L. Littler, M.A.; Kilmore Hall (37), Warden: A. H. Shorter, B.A.; Mardon Hall (80), Warden: F. H. Littler, B.Arch., A.R.I.B.A.; Thomas Hall (30), Warden: W. F. J. Knight, M.A.; Sandford Hall (21), Warden: W. H. Hill, B.A. Terms: £63-£70 p.a. All students not living at home must reside in one of the Halls of Residence.

**SCHOLARSHIPS** for graduates: in Sci. one or two annually from Andrew

Simons Scholarship Fund and one Mardon Scholarship ; one (Rook) annually to Mod. Lang. student for study abroad ; one (Lopes) annually in Arts, and one Rotary Scholarship tenable at this College or elsewhere.

APPOINTMENTS COMMITTEE. Chairman, Dr. J. Sykes.

SUMMER SCHOOLS in Biology and for Foreign Students are held in Aug. In 1937, 181 students attended the latter from 23 different countries.

PUBLICATIONS. *Prospectus*, issued (free) in July ; *Annual Report* (free) in Oct. ; the *Ram*, College Magazine (terminally) ; the *College Field Club Proceedings* ; Guild of Undergraduates' *Handbook*.

## THE YEAR 1936-37

BENEFACTIONS. Mr. C. V. Thomas, £5000 for Hall of Residence for Men. Hon. Mrs. Ida Sebag Montefiore, £6000 for provision of annexe and addnl. accommodation at Hope Hall. Agricultural Research Council, grant of £455 for research in Dept. of Botany. Mrs. E. Barron, £100 for provision of furniture for Mixed Common Room. Mr. R. M. Rowe, £100 towards new Library. Sir Alfred Goodson, £50. Devon County Assn. of Teachers, 30 guineas.

NEW DEPARTMENTS AND POSTS. Boys' Club Leader. Instructor in Physical Training. Asst. Lectr. in German. Research Asst. in the Dept. of Botany. Academic Secretary.

OTHER DEVELOPMENT. Senior Division of O.T.C. formed.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. W. K. Hancock (Birmingham Univ.), "The Imperial Conference" ; Prof. F. M. Cornford (Cambridge Univ.), "Reason and Necessity in Plato's *Timæus*" ; M. P. Charlesworth (Cambridge Univ.), "A Traveller of the Roman Empire" ; Sir John Russell, F.R.S., Director of Rothamsted Experimental Station, "An Agricultural Journey through Russia" ; Rev. C. F. Angus (Cambridge Univ.), "Lucretius" ; Dr. M. Nierenstein (Bristol Univ.), "A Visit to Rhodesia."

VISITS OF MEMBERS OF STAFF. Dr. John Murray, Principal, visited Uganda and Kenya as a member of Commission appointed by Colonial Office to report upon development of higher education for natives in East Africa.

RETIREMENTS. Mr. F. T. Howard, Warden of Thomas Hall of Residence. Miss W. Story, Instructress in Needlework and Handwork.

RESIGNATIONS. Mr. J. M. Pullan, Asst. Lectr. in Education. Dr. D. W. Hill, Asst. Lectr. in Chemistry. Miss E. M. Paine, Matron of Hope Hall of Residence. Mr. D. M. B. Pitt, Asst. in Maths. Dept. and Warden of Kilmorie Hall of Residence.

DEATHS. Mr. K. M. Constable, Asst. in Maths. and Warden of Mardon Hall. Mr. John Passmore, member of Council.

STUDENTS. Full-time : 422, including 69 graduates. Part-time : 216, including 22 graduates and 10 occasional. Extra-mural (Tutorial and Extension Classes), 1014. Summer School for Foreign Students, 1937, 181. Summer School in Biology and Ecology, 1937, 29. Summer School in International Relations, 1937, 19.

DEGREES OBTAINED. B.A., 26 ; M.A., 1 ; B.Com., 1 ; LL.B., 3 ; B.Sc., 25 ; B.Sc.(Econ.), 4 ; M.Sc., 1 ; Ph.D., 1.

# UNIVERSITY COLLEGE OF NOTTINGHAM

Founded 1881

PRESIDENT—His Grace THE DUKE OF PORTLAND, K.G., G.C.V.O.

VICE-PRESIDENTS—Alderman E. HUNTSMAN (Chairman of Council) ;  
GEORGE SPENCER, J.P. ; Alderman Major T. P. BARBER, D.S.O.,  
T.D., B.A. Camb., D.L., J.P. ; The Rt. Hon. LORD TRENT.

PRINCIPAL—H. A. S. WORTLEY, M.A. Camb.

REGISTRAR—J. E. SHIMELD, F.C.I.S.

LIBRARIAN—G. ELLIS FLACK, M.A. Camb.

Telephone : Beeston 54265.

## TEACHING STAFF

### *Botany*

Bennet-Clark, T. A., M.A. Dub.,  
Ph.D. Camb. Prof.  
Holden, H. S., D.Sc. Manc., F.L.S.  
(Palæobot.) Hon. Reader.  
Bexon, Dorothy, M.Sc. Lond.,  
F.L.S. Lectr.  
Ellis, Myfanwy, M.Sc. Wales,  
F.L.S. Asst. Lectr.

### *Chemistry*

Gulland, J. M., M.A. Ox, Ph.D.  
St. And., D.Sc. Edin.  
Sir Jesse Boot Prof.  
Prideaux, E. B. R., M.A. N.Z.,  
D.Sc. Lond., F.I.C.  
(Inorg. and Phys. C.) Reader.  
Trotman, S. R., M.A. Camb.,  
F.I.C. (Appl. C.)  
Sir Jesse Boot Lectr.  
Firth, J. B., D.Sc. Manc., M.Sc.  
Durh., F.I.C., M.I.Chem.E.  
Sr. Lectr.

Lectrs. :

Driver, J. E., M.Sc., Ph.D. Lond.,  
F.I.C.  
Laxton, F. C., B.Sc. Lond., A.I.C.  
Shaw, B. D., M.M., B.Sc., Ph.D.  
Lond., A.I.C.

Barber, H. H., B.Sc., Ph.D. Lond.,  
F.I.C. (Bio-Chem.) Lectr.  
Roberts, J. C., B.Sc., B.Pharm.  
Lond., A.I.C., Ph.C. (Pharm.  
Chem.) Asst. Lectr.  
Jackson, Jessie E. M., B.Sc. Lond.  
Research Asst.

### *Classics*

Barker, E. P., M.A. Ox., D.Litt.  
Durh.  
Reader and Hd. of Dept.  
Ford-Smith, R. E., M.A. Camb.  
Asst. Lectr.

### *Economics and Commerce*

Radford, A., B.Sc. Econ. Lond.  
(Econ.)  
Reader and Hd. of Dept.  
Blythen, S., O.B.E., F.C.A.,  
F.S.A.A.  
(Acctcy.) Pt.-time Prof.  
Howard, S. C. (Comm.) Lectr.  
Wells, F. A., B.Sc. Econ., Ph.D.  
Lond. Asst. Lectr.  
Lees, J. P., B.A. Camb. Asst. Lectr.

### *Education*

Attlee, C. M., B.A. Ox. Prof.

Sr. Lectrs. and Tutors :  
 Lewis, M. M., M.A., Ph.D. Lond.  
 Becket, Edith M., M.A., Ph.D.  
 Lond.  
 Moncrieff, Agnes, M.A. Edin.  
 Sumner, W. L., B.Sc. Lond. Lectr.  
 Stewart, A. H., B.A. Lond.  
 Asst. Lectr.  
 And other pt.-time Lectrs. in Art,  
 Handicraft, Hort., Hyg. and  
 Phys. Training.

*Engineering, Civil*

Bulleid, C. H., O.B.E., M.A.  
 Camb., M.I.Mech.E. Prof.  
 King, J. W. H., B.Sc. Manc. Lectr.

*Engineering, Electrical*

Cotton, H., M.B.E., D.Sc. Manc.,  
 F.R.Met.S. Prof.  
 Golding, E. W., M.Sc. (Tech.)  
 Manc., M.Amer.I.E.E. Lectr.  
 Edwards, C. P., M.Sc. (Tech.)  
 Manc. Asst. Lectr.

*Engineering, Mechanical*

Bulleid, C. H. (v. Engin., Civil)  
 Prof.  
 Dickson, J. M., B.Sc. Lond.,  
 M.I.Mech.E. Senr. Lectr.  
 Rolinson, J. G. Lectr.  
 Ruddick, W. Instr.

*English*

Hewitt, R. M., M.A. Ox. Prof.  
 Selby, Alice, M.A. Camb.

Sr. Lectr.  
 Griffiths, G. S., B.A. Wales,  
 M.A., B.Litt. Ox. Lectr.

Lectrs. (Pt.-time) :

De Castro, Inez, M.A. Ox.  
 Peck, Mrs. Anne P. (Phonetics).  
 Underwood, Mrs. Phyllis M.  
 (Phonetics).

Stewart, A. H., B.A. Lond.  
 Asst. Lectr.  
 Rush, J., B.A. Lond. Asst. Lectr.

*French*

Weekley, E., M.A. Camb. (to  
 31.8.38) Prof.

Guigou, Marguerite C., L. ès L.  
 Lausanne Lectr.  
 Lévêque, P., L. ès L. Lille.  
 Lector.

*Geography*

Edwards, K. C., M.A. Lond.  
 Lectr.  
 Smith, G. I., M.Sc. Lond.  
 Asst. Lectr.

*Geology*

Swinnerton, H. H., D.Sc. Lond.,  
 F.G.S. Prof.  
 Richardson, W. A., O.B.E., B.A.,  
 D.Sc., B.Sc. (Eng.) Lond.,  
 F.G.S. (Petrology)  
 Hon. Reader.  
 Clift, S. G., M.Sc. Lond., F.G.S.  
 Lectr.

*German*

Schweizer, W. R., Ph.D. Berne  
 Sr. Lectr.  
 Friesse, E., Ph.D. Rostock Lectr.

*History*

Owen, L. V. D., M.A. Ox. Prof.  
 Oswald, F., D.Sc. Lond., F.S.A.  
 (H. of Roman Brit.)  
 Hon. Reader.  
 Brameld, Nina M., M.A. Lond.  
 Sr. Lectr.  
 Wood, A. C., M.A., B.Litt.,  
 D.Phil. Ox. Lectr.  
 McDonald, A. H., M.A. N.Z. and  
 Camb. (Ancient H.) Lectr.

*Italian*

Threlfall, A. Pt.-time Lectr.

*Law*

May, H. R. D., M.C., M.A., LL.B.  
 Camb.  
 Hd. of Dept., Sr. Lectr.

Pt.-time Lectrs. :

Cursham, C. (Real Property).  
 McDonald, A. H., M.A. N.Z. and  
 Camb. (Roman L.).  
 Brameld, Nina M., M.A. Lond.  
 (Constit. Hist.).  
 Howard, S. C.

*Mathematics*

- Piaggio, H. T. H., M.A. Camb.,  
D.Sc. Lond. Prof.  
Green, H. Gwynedd, M.A. Camb.  
Reader.  
Underwood, F., M.Sc. Lond. Lectr.  
Asst. Lectrs. :  
Prior, L. E., M.Sc. Lond.  
Dallas, A. E. M. Marta, M.A.,  
B.Sc. Edin.

*Mining and Fuels*

- Collinson, P. L., B.Sc. Eng.,  
B.Sc.Eng. (Min.) Lond.,  
M.I.Min.E. Prof.  
Watson, J. M. R., B.Sc. Glas.,  
M.I.Min.E., M.I.M.S.  
Sr. Lectr.  
Brown, H. R., B.Sc. Eng. (Min.)  
Lond., M.I.Min.E.  
Asst. Lectr.

*Music* [Pt.-time Lectr.

- Veitch, W., B.A., D.Mus. Ox.,  
A.R.C.M., L.R.A.M., F.R.C.O.

*Pharmacy*, v. also Chemistry

- Bentley, A. O., Ph.C., M.P.S.  
Hd. of Dept., Reader.  
Lectrs. :  
Trease, G. E., B.Pharm. Lond.,  
Ph.C., A.I.C., M.P.S., F.L.S.  
(Pharmacognosy).  
Turner, H. A., Ph.C., D.B.A.,  
M.P.S. (Pharmaceutics)  
Stather, Mrs. C. (Mat. Med.)  
Pt.-time Asst. Lectr.  
Mumford, F. R., B.Sc., B.Pharm.  
Lond., Ph.C. Demr.  
Partridge, M. W., B.Sc., B.Pharm.  
Lond., Ph.C. Demr.

*Philosophy*

- Sprott, W. J. H., M.A. Camb.  
(Logic and Psychol.) Lectr.

*Physical Education*

- Williams, A. I. J., B.A. Ox.  
Lectr.

*Physics*

- Bates, L. F., B.Sc. Bristol, Ph.D.  
Camb., D.Sc. Lond., F.Inst.P.  
Lancashire-Spencer Prof.  
Davy, N., M.M., M.Sc. Lond.,  
A.R.C.S. Sr. Lectr.  
Franks, A. H., B.Sc. Lond. Lectr.  
Browning, H. Mary, M.Sc., Ph.D.  
Lond., F.I.P. Lectr.  
Yarnold, G. D., M.A., D.Phil. Ox.  
Asst. Lectr.

*Physiology*

- Barber, H. H., B.Sc., Ph.D. Lond.,  
F.I.C. Lectr.

*Slavonic Languages*

- Lavrin, J. Prof.

*Spanish and Portuguese*

- Chamberlain, G. L., M.A. Edin.  
Lectr.

*Textiles*

- Davis, W., M.A. Edin. Prof.  
Trotman, S. R., M.A. Camb.,  
F.I.C. (Dyeing and Finishing)  
Pt.-time Sr. Lectr.  
Boswell, W. E., F.T.I. (Hosiery  
Manufac.) Lectr.  
Lomax, J., F.I.C. (Yarn Testing)  
Lectr.  
Richardson, L. G. (Dyeing and  
Finishing) Asst. Lectr.  
Buckley, G. H., F.T.I. (Hosiery  
Manufac.) Asst. Lectr.  
Johnson, A., A.T.I.  
(Spinning and Weaving)  
Asst. Lectr.

*Zoology*

- Barrington, E. J. W., M.A., B.Sc.  
Ox., F.L.S. Lectr.  
Pyefinch, K. A., B.A. Camb.  
Asst. Lectr.

*Adult Education*

- Peers, R., M.C., M.A. Liv. Prof.  
Chambers, J. D., B.A., Ph.D.  
Lond. Asst. Director.  
2 Staff Tutors, 4 Organizing Tutors.

ASSOCIATED COLLEGE: MIDLAND AGRICULTURAL COLLEGE, Sutton Bonington. Subjects for the Final Examn. for the London B.Sc. in Agric. are taken at this College, those for the Intermediate only being taken at Univ. College, Nottingham.

## GENERAL INFORMATION

The College was opened in 1881 and incorporated under present Charter in 1903. The Faculties of Arts and Pure Science and Depts. of Engineering occupy the University Park Buildings. The Depts. of Mining and Textiles occupy the Shakespeare Street Buildings.

**LIBRARY.** The Library of the College contains about 56,000 vols. and 19,500 unbound Pamphlets—amongst which are great series, such as Migne, Corpus Inscriptionum Latinarum, Inscriptiones Graecae, Calendar of State Papers, Rolls. There is a collection of about 2000 volumes of French Revolution and Napoleonic literature, which originally formed part of the Crawford Collection; and the Henry Mellish Meteorological Collection of 700 volumes. The Library also possesses 9 MSS., 7 incunabula and about 300 deeds mainly of local interest. Current periodicals number over 400.

**DEGREE COURSES.** For London External degrees in Arts, Music, Econ., Com., Laws, Pure Science, Pharm., Agric., Engin., Mining; also for the First Medical Examn. at London and other Univs.; and for the first degree in Music of the Univ. of Durham.

**POSTGRADUATE WORK.** Courses and facilities for research in all depts. Postgraduate Diplomas in Adult Education and Technical Mycology.

**DIPLOMA AND OTHER COURSES.** Diploma of the College in Com., Engin. (Civil, Mech., Elec.), Mining, Fuel Technology, Higher Diploma in Textiles, Higher Diploma in Dyeing (each 3 yrs.); Social Study, Geog., Hosiery Manufacture, Dyeing and Finishing, Colour and Design (each 2 yrs.); Cambridge Certificate in Education; Teachers' Certificate of the Nottingham University Coll. and Associated Training Colls. Delegacy; Assoc'ship of the Insts. of Chem. and Physics; Law Society's Examns.; Pharm. Diplomas. Courses are arranged for the Administrative Group and other Civil Service examns.

Special course for foreign students in English Phonetics, English Language, English Literature, Translation, Economics, Commercial knowledge. A Certificate of Proficiency in English is awarded and students may also prepare for the Cambridge Certificate of Proficiency. Students may be admitted at the beginning of any term. Tutor: S. C. Howard.

**ADMISSION.** Students under 17 not admitted without special permission of Principal. Students may be required to give satisfactory evidence as to character. All students residing outside the U.K. must submit references as to character and educational qualifications.

**BOARD OF FACULTIES** in Arts, Pure Science and Applied Science. Boards of Studies for Social Science and Course in English for Foreign Students.

**CAREERS AND APPOINTMENTS BOARD,** Chairman: Professor H. T. H. Piaggio, M.A., D.Sc. Careers Adviser: A. H. McDonald, M.A.

**ADVISER TO ORIENTAL STUDENTS:** H. Gwynedd Green, M.A.

**FEES.** Tuition, per annum: Degree or Diploma courses in Arts, Commerce and Econ., 24 gs.; Pure and Applied Science, 30 gs.; Registration fee, £1 p.a.; Union fee, £1:15s. p.a. Course in English for foreign students, £15:15s. per term.



**RESEARCH SCHOLARSHIPS.** Four in Arts from £50 to £150 p.a.; four in Science (including three open scholarships, *see* Appendix II. 17) from £45 to £115 p.a.; other research studentships and grants.

**RESIDENCE.** Hugh Stewart Hall (Warden : J. E. Shimeld) and Mapperley Hall (Warden : G. I. Smith) for men, the latter primarily for students in the Training Department, fee £65-£70 p.a. F. B. Hall, University Park (Warden : Miss I. de Castro) for women, fee £65 p.a. Students not accommodated in a Hall of Residence must live in College Registered Lodgings—30s. to 40s. per week.

**UNIVERSITY EXTENSION.** Extra-mural adult education is organized as a department of the Faculty of Arts. The Head of the Dept., a whole-time professor, is assisted by an Asst. Director and 2 staff tutors, 4 organizing tutors, and many part-time tutors and lecturers.

**PUBLICATIONS.** *Calendar* (Nov.), 2s. 6d.; *Prospectus* (Day), 6d., (Evening), 3d.; *The Gong*, 3 times a year; *Students' Handbook* (Oct.); *Diary* (Oct.), 1s. 6d.

## THE YEAR 1936-37

**BENEFACTIONS.** Contributions amounting to £3457 towards the Endowment Fund. Mrs. Margaret Isabel Massey-Stewart, £5000 for a postgraduate Scholarship in memory of her husband, Hugh Stewart, C.M.G., D.S.O., M.C., M.A., Principal of the College 1930-34. £1000 by public subscription to establish a Hugh Stewart Memorial Bursary.

**NEW BUILDINGS.** Extension to existing Pavilion on the playing fields and erection of a second Pavilion. Extensions, including new dining-room, common room and staff quarters, to the Hugh Stewart Hall of Residence for men students.

**NEW POST.** Lectureship in Physical Education.

**EXTRA-MURAL WORK.** The number of Classes and Courses was 242 as against 224 in the previous session. During the session 54 Tutorial classes, 73 One-Year classes, 63 Terminal courses, 15 Short Terminal courses, 35 University Extension courses were held. The number of students attending these classes was 4240.

**PUBLIC FOUNDATION LECTURES.** Byron Foundation Lecture, Willard Connelly, "Byron as a Satirist"; Cust Foundation Lecture, The Most Hon. The Marquess of Londonderry, K.G., P.C., M.V.O., "Airways of the Empire: their History and development"; Sir Jesse Boot Foundation Lecture, Prof. J. Masson Gulland, "Where Chemistry and Biology Meet"; Abbott Memorial Lecture, S. G. Clift, "Oil-Finding in England and Elsewhere"; Akroyd Stuart Memorial Lecture, H. V. Stead, "Running Costs of Diesel Engines"; Montague Burton International Relations Lecture, Prof. P. Sargant Florence, "International Industrial Problems and the International Labour Office."

**RESIGNATIONS.** Mr. R. G. Robertson (Civil Engin.), on apptment. as Civilian Engineer in connexion with Quetta Reconstruction scheme; Mr. C. H. Edwards (Textiles), on apptment. to industrial post.

**STUDENTS.** Full-time, 584; graduates, 75. Part-time and occasional, 306. Evening students, 2037; graduates, 45. Extra-mural, 4240.

**DEGREES OBTAINED.** B.A., 56; B.Sc., 49; B.Sc.Econ., 2; B.Sc. Eng., 9; M.Sc., 1; B.Pharm., 2; Ph.D., 1.

# UNIVERSITY COLLEGE, SOUTHAMPTON

Founded 1850

VISITOR—H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN,  
K.G., K.P., K.T.

PRESIDENT—Rt. Hon. LORD MOTTISTONE, C.B., C.M.G., D.S.O., T.D.

VICE-PRESIDENT—CLAUDE G. MONTEFIORE, M.A., D.Litt. Ox., D.D.  
Manc.

TREASURER—E. GIBSON FLEMING.

PRINCIPAL—KENNETH H. VICKERS, M.A. Ox.

REGISTRAR—GEORGE GRANT, B.A. Liv.

LIBRARIAN—Miss D. P. POWELL, M.A. Ox.

Telephone : Southampton 74071, 74072.

## TEACHING STAFF

### *Accountancy*

Couzens, J. V., F.S.A.A. Lectr.

Mills, S. E. D., A.C.A., A.T.I.  
Lectr.

### *Botany*

Mangham, S., M.A. Camb. Prof.

Loader, Miss F. M., B.Sc. Lond.  
Lectr.

Arney, S. E., B.A. Ox.

Asst. Lectr.

Lane, G. R., B.Sc. Lond. Demr.

### *Chemistry*

Adam, N. K., M.A., D.Sc. Camb.,

F.R.S., F.I.C. Prof.

Lawson, A., B.Sc., Ph.D. Glas.

Lectr.

..... Lectr.

Jeffery, G. H., B.Sc., Ph.D. Lond.,

A.I.C. Asst. Lectr.

Balson, E. W., B.Sc. Lond.

Demr.

Topps, J. E. C., B.Sc. Lond. Demr.

### *Classics*

Forsey, G. F., M.A. Lond. Prof.

Holley, Miss N. M., M.A. Camb.

Lectr.

Pope, Rev. R. M., M.A., B.D. Camb.

(Hellenistic Gk. and Early  
Christian Lit.) Hon. Lectr.

Bachtin, N., Ph.D. Camb., L. ès L.

Paris Asst. Lectr.

### *Economics and Commerce*

Ford, P., B.Sc. (Econ.), Ph.D.

Lond. Lectr. in Charge

Hodgson, R. A., B.Com. Lond.,

Dip. in Pub. Admin. Lectr.

### *Education and Philosophy*

Cock, A. A., B.A. Lond. Prof.

Dudley, G. G., B.A. Lond., LL.B.

R.U.I. (Logic) Sr. Lectr.

### *Lecturers :*

Hales, Miss R. B., M.A. Ox.

Harry, H. T., B.Sc. Bristol.

Ackroyd, J. W., B.A. Camb.

Asst. Lectrs. (part-time) :

Ricks, Miss E. M. (Phys. Training

and Hyg., Women).

Anderson, G. W. (Phys. Training

and Hyg., Men).

Russell, L. G. (Handicraft).

*Engineering*

Cave-Browne-Cave, Wing Com-  
mander T. R., C.B.E., R.A.F.  
(retired), M.I.M.E., M.I.N.A.,  
F.R.Ae.S. Prof.

*Engineering, Aeronautical*

Tanner, T., A.C.G.I., D.I.C.,  
A.F.R.Ae.S. Lectr.  
Ford, G. P. Asst. Lectr.  
Moyle, R. C., M.I.Mar.E. „ „

*Experimental Engineers:*

Leech, H., A.M., A.F.R.Ae.S.  
Jenkins, W. Asst.

*Engineering, Civil* [Sr. Lectr.  
Mann, E. E., M.Sc. (Eng.) Leeds

*Engineering, Electrical*

Spary, P. G., B.Sc. (Eng.) Lond.,  
M.Eng. Sheff., M.I.E.E.,  
M.A.I.E.E. Sr. Lectr.  
Chester, C. E., B.Eng. Sheff. Lectr.

*Engineering, Mechanical*

Glover-James, H., B.Sc. (Eng.)  
Lond., Dip. Eng. (Edin.) Lectr.

*English Lang. and Lit.* [Prof.

Pinto, V. de S., M.A., D.Phil. Ox.  
Lectrs. :  
Leishman, J. B., M.A., B.Litt. Ox.  
Potter, S., M.A. Lond., B.Litt.  
Ox., Ph.D. Prag.

*Geography*

Miller, Miss F. C., B.A. Leeds  
Lectr. in Charge.

*Lectrs. :*

Tavener, L. E., M.A. Camb.  
Boswell, Miss K. C., B.A., M.Sc.  
Lond.  
Green, F. H. W., B.A., M.Sc.  
(Econ.) Lond. Asst. Lectr.

*Geology and Zoology*

Sherriffs, W. R., M.A., D.Sc.  
Aberd., F.L.S. Prof.  
Hall, R. E., B.Sc. Lond., A.R.C.S.  
Asst. Lectr.

Hockley, A. R., B.Sc. Lond.

Asst. Lectr.

Berry, J., M.A. Camb., Ph.D. St.  
And. Avon Res. Officer.

Moon, H. P., M.A.  
Asst. Avon Res. Officer.

*History*

Betts, R. R., B.A. Ox. Prof.  
Quinn, D., B.A. Belf., Ph.D. Lond.  
Lectr.

Hirschfield, J., B.A. Lond.  
Asst. Lectr.

*Law*

Turner, G., M.A. Camb.  
Director of Legal Studies.

*Asst. Lectrs. (part-time) :*

Groves, L. G., LL.B. Lond.  
Stanier, J. G., LL.B. Lond.  
Page, R. Graham, LL.B. Lond.

*Mathematics, Pure and Applied*

Ruse, H. S., M.A. Ox., D.Sc. Edin.  
Prof.

Trout, Miss A. M., B.A. Lond.  
Lectr.

Maunsell, F. G., M.A., Ph.D.  
Camb. Lectr.

Casson, R., M.A. Camb.  
Hon. Lectr.

Pedoe, D., B.A. Asst. Lectr.  
Guest, D. H., M.A. Camb. Demr.

*Modern Languages*

Lawton, H. W., M.A. Wales, D. de  
l'U. Paris

(French) Prof. in Charge  
of Dept.

Hamilton, Miss G. H.  
(French and Spanish) Lectr.

Lucas, W. I., M.A. Brist., Ph.D.  
Heidelberg (German) Lectr.

Ladborough, R. W., B.A., Ph.D.  
Camb. (Frèch) Asst. Lectr.

Neuschaeffer, W., Ph.D. Heidel.  
(German) Lektor.

Laboulle, Mlle. M. J.  
(French) Lectrice.

*Music*

Williams, D. C., B.Mus. Durh.,  
F.R.C.O. Lectr. in Charge.

*Navigation*

Wakeford, Capt. G. W., F.R.A.S.  
(Navigational Studies)

Director.

Hancock, Capt. C. W. Senr. Lectr.

Lecturers :

Branch, Lieut. W. J. V., R.N.R.

Stoodley, L. G., B.Sc. Lond.

Moyle, R. C., M.I.Mar.E. (Engin.).

Shelley, W., R.N. (Retd.), (Signals).

Shenton, T., R.N. (Retd.) Instr.

Ings, H. J. Instr.

*Philosophy*, v. Educn.

*Physics*

Menzies, A. C., M.A. Camb., D.Sc.  
Lond., F.I.P. Prof.

Weintroub, S., M.A. Ox. Lectr.

Howell, H. G., B.Sc., Ph.D.

Lectr.

George, W. H., Ph.D. Lectr.

Weissenberg, K., Ph.D. Jena

Guest-Prof.

*Theology*

Tindall, Rev. F. C., B.D.

Tutor and Lectr.

*Zoology*, v. Geol.

## Extra-mural Studies

Secretary : J. Parker, M.A. Durh.

Tutor Organisers : J. R.

Armstrong, M.A., W. Taplin,

B.A., B.Com.

## GENERAL INFORMATION

Founded 1850 ; opened as the Hartley Institution, 1862. Incorporated as the Hartley University College under a scheme of the Board of Education, 1902.

The Library, 48,571 vols., of which 6500 are unbound, includes the Cope collection of Hampshire books, pamphlets, and broadsheets.

The Cotton Collection of Birds is housed at the College. This collection is unique, and represents many types of birds unprocureable for any collection at the present day.

The College provides courses in Arts, Science, Commerce, Engineering (Civ., Mech., Elec., Aeronautical), Music and Law in preparation for the External degrees of the Univ. of London ; for entrance into the Civil Service and for first yr. studies in Medicine, Pharmacy, Surveying, etc. It is recognized as a Training College for Teachers. The Department of Law (instituted in 1923) is recognized as a Law School under the Solicitors Act. The School of Navigation is recognized by the Board of Trade. There is special provision for aeronautical instruction (5 ft. wind tunnel) ; aircraft manufacturing firms in district provide opportunities of keeping in close touch with practical aircraft construction.

Special courses in English (Phonetics, Conversation, Composition, Translation, Modern English Literature, Commercial and Economic Knowledge, History of British Institutions) are provided for foreign students leading to the Certificate of Proficiency in English issued by the University of Cambridge. Minimum course of study one term, but students are strongly recommended to devote 2 or 3 terms to the course. Supervisor of Foreign Students : Dr. S. Potter.

Through its evening classes (attended by about 1000 students) the College performs the function of a Senior Technical Institute.

The Associateship of the College (Assoc. U.C.S.) implies, unless honorary, attendance during 2 yrs. (4 yrs. for evening and part-time students).

There are special courses in Social Studies for graduates and others, and diplomas and certificates are awarded.

**ADMISSION.** Candidates aged 16 (though students are advised not to enter below 18) are admitted provided they (1) produce a satisfactory testimonial of good conduct from a headmaster, headmistress, or some other responsible person; (2) have either (a) passed or obtained exemption from a matricn. examn. of the Univ. of London, or (b) passed the Entrance Examn. of the Coll.; or (c) hold such qualifications as Senate from time to time may recognize. Each full-time student is placed under the supervision of a member of the Staff, who acts as his Tutor.

Part-time students may in special circumstances be admitted to separate courses without passing the Entrance Examn.

**FEES.** The sessional fee is £25 for Courses in Arts, Commerce, and Music; £32 for Courses in Science and Engineering; and £30 for the Teachers' Diploma Course. Students whose parents are ratepayers within County Borough, Southampton—£18: 15s., £22: 10s., and £24 respectively.

Students' Union, composite fee, £2: 10s. p.a.

**EXHIBITIONS AND SCHOLARSHIPS.** The Coll. offers annually 10 open Exhibitions (free tuition); 7 open Scholarships; the Seymour J. Gubb Scholarship; the Alex Hill Memorial Scholarship; and the John Scott-Montagu Scholarship, all tenable for 3 yrs.

All Scholarships are of the value of £70 p.a. for students coming into residence, and £40 for non-residential students. The holders are required to pay tuition fees.

**SCHOLARSHIPS FOR GRADUATES.** Post-graduate Research Scholarships. See Appendix II. 1 and 10. Loan fund for senior students.

**RESIDENCE.** All full-time students must ordinarily reside in one of the Halls of Residence unless they are living with their parents or legal guardians. Halls for men: South Stoneham (Warden: Prof. A. A. Cock, B.A.), Connaught (Warden: Rev. F. C. Tindall, B.D.); for women: Highfield (Warden: Miss E. U. Lightbody, M.A.). Fees, £65-£75 p.a.

**APPOINTMENTS BOARD.** Chairman—F. E. Wentworth-Sheilds. Secretary—R. Casson. M.A.

**EXTRA-MURAL WORK.** Extension classes are organized through the Extension Committee of the Extra-mural Board of the Coll. Courses of lectures are given by members of the Staff and other approved lecturers. Tutorial classes in connexion with the Workers' Educational Association are organized by a Joint Committee in the usual manner.

**PUBLICATIONS.** *Calendar* (Sept.), free; Halls of Residence Prospectus free; *Students' Magazine*, 6d.; *Wessex Magazine* (June), 1s. 6d. annually.

## THE YEAR 1936-37

**BENEFACTIONS.** Donations during the Session amounted to £19,286.

**NEW BUILDINGS.** New Physics Laboratories completed and now fully utilized.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. Perry Miller (Dept. of Hist. and Lit., Harvard Univ.), "17th Century Nonconformism in England and America." Representatives of certain German Universities visited the Coll. in March 1937. They were: Dr. W. Schmidt (Marburg), Dr. W. Fischer (Giessen), Dr. H. Heuer (Kiel), and Herr Gunther Kontges (Marburg), a former student of the College.

**VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES.** Prof. V. de S. Pinto was the guest of the Univ. of Liège, Belgium, from 20th to 23rd April. By invitation he delivered three lectures on Contemporary English Literature to the English seminar. At the conclusion he was presented with the bronze medal of the Univ. in the presence of the British Consul.

**PUBLIC LECTURES.** The following were given at the College : Prof. Daisetsu Teifaro Suzuki, "Buddhism in the Life and Thought of the Japanese People" ; Mr. Harold F. Kynaston Snell, "Children in Russia—A Survey of Soviet Education" ; Dr. Simeon Potter, "The Vision of Piers Plowman." Prof. A. Carnoy, "Indo-European Linguistics in Relation to the Study of Mythology" ; Mr. W. Dring, "The Development of English Landscape Art" ; Miss Margrite L. Yeo, "Creating Citizens—Allotment Gardens for the Unemployed."

**RETIREMENTS.** Prof. D. R. Boyd (Chem.). Prof. O. H. T. Rishbeth (Geog.), owing to ill health.

**RESIGNATIONS.** Prof. A. M. Boase (Modern Langs.), on apptment. to Marshall Chair of French, Univ. of Glasgow. Mr. E. Brook Williams (Navigation), on apptment. with British Airways, Ltd., Gatwick Airport, Surrey. Mons. C. Brot (French), on apptment. in Switzerland. Miss J. Carpenter, Warden of Highfield Hall, on apptment. as Warden of University House, Birmingham. Mr. L. G. Carpenter, (Physics) on apptment. to Staff of Royal Aircraft Factory, Farnborough, to direct research on instruments. Mr. E. A. Earwicker (Chem.). Mr. M. Hughes, Tutor Organizer of Extra-mural Studies. Miss E. A. G. Knowles (Maths.), on apptment. as Asst. Lectr. in Maths., Royal Holloway College, Univ. of London. Mr. E. W. Luker (Handicraft). Mr. L. D. Malpas (Accountancy). Mr. A. D. Skelding (Botany). Dr. A. Wasserman (Phys. Chem.).

**STUDENTS.** Full-time : 336, including 66 graduates. Part-time : 326 (day classes) ; 812 (evening classes).

**DEGREES OBTAINED.** B.A. Hons. 26, Ord. 14 ; B.Sc. Spec., Hons. 5 ; Ord. 8 ; B.Sc. Genl., Hons. 4, Ord. 24 ; B.Sc. Engin., Hons. 5, Ord. 6 ; B.Sc. Econ., Hons. 5 ; M.Sc. Physics, 1.

# ST. DAVID'S COLLEGE, LAMPETER

Founded 1827

VISITOR—THE RT. REV. THE BISHOP OF ST. DAVID'S.

PRINCIPAL—Rev. CANON MAURICE JONES, D.D. Ox.

Telephone : Lampeter 42.

Profs.—*Theol.*, The Principal ; *Science*, J. C. Evans, M.A. Ox. ; *Engl. and Phil.*, H. Walker, M.A. Ox., LL.D. Glas., D.Litt. Wales ; *Welsh*, Rev. R. H. Richards, M.A. Ox. ; *Hebrew and Theol.*, Rev. A. E. Morris, M.A. Ox., B.D. ; *Latin and Greek*, H. A. Harris, M.A. Ox.

Lectrs.—Dawson, D., B.A. Leeds, M.Litt. Camb. (*Hist.*) ; Morgan, Rev. Wm. H., B.D. Lond., B.A. Wales (*Theol.*) ; Rowlands, Rev. E. C., M.A. Camb. (*Classics*) ; Thomas, Ven. Archdeacon D. W., M.A. Ox., B.A. (*Pastoral Theol.*), Hon. Lectr. ; David, Rev. F. J. T., M.A. Ox., B.A. (*Hist. and Theol.*) ; Nock, G. C., M.A. Ox.

The College was founded in 1827 for the purpose of affording to persons intended for the Ministry of the Church, especially in Wales, a sound and liberal education on the lines of that offered by the older Universities. Incorporated by Royal Charter, it is empowered to confer degrees in Arts and Theology. Residence for nine full terms and the passing of three examns. conducted by examiners appointed by Oxford and Cambridge are requisite for B.A., ten terms for B.D.

SCHOLARSHIPS. The Dillwyn Llewelyn Trust provides £150 p.a. from which scholarships are granted to students proceeding to Oxford or Cambridge under the Affiliation regns. The Evan Jones scholarship in Hellenistic Greek is tenable by a post-grad. student.

ADMISSION. Candidates can be matriculated (1) on the result of the Coll. Scholarship Examn. provided they have passed in English, Elem. Maths., and two other subjects specified for matricn. ; (2) on a certif. of any matricn. examn. of a U.K. Univ. or any certif. exempting from Oxford Responsions or Cambridge Previous examn. ; (3) on the School Certif. of the Ox. and Camb. Schools Examn. Bd. or the Central Welsh Bd. or Ox. and Camb. Local Examns. in English and Maths. (with credit), and any two subjects of the Coll. matricn. examn. ; (4) on passing the Coll. matricn. examn. in Engl. Essay, Engl. Hist., Maths., and any two of—Latin, Gk., Engl. Lit., Welsh, French, German, Addnl. Maths., Phys. Sci. Further particulars from the Principal.

POST-GRADUATE STUDY. A grant of £10 p.a. is offered to grads. and licentiates of the Coll. and to grads. of any recognized Univ. for post-grad. study in Theol.

LICENTIATE IN DIVINITY. A Licentiate in Divinity is conferred on students admitted to a biennial course (mainly theological) on a certif. from a Bishop.

DIPLOMA IN THEOLOGY. A Dip. in Theol. is granted to grads. of the Coll. or of any Univ. who reside for 2 yrs. and pass the necessary examns. after qualifying for their Arts degree. The Dipl. is accepted as an alternative to the Genl. Ordination Examn. of the Church of England.

STUDENTS. 194, including 36 graduates.

DEGREES OBTAINED. B.D., 4 ; B.A., 62.

# THE SCOTTISH UNIVERSITIES

ST. ANDREWS  
GLASGOW

ABERDEEN  
EDINBURGH

REPRESENTATIVES IN PARLIAMENT, *see* p. 18.

IN CONSTITUTION these 4 Universities have, under the operation of the Univs. (Scotland) Acts 1858 and 1889, been to a great extent assimilated. By the former Act 2 new bodies, called the Univ. Court and General Council, were instituted; by the latter a Committee of H.M.'s Privy Council was constituted, and an Executive Commission was created with extensive powers, which it continued to exercise till the end of 1897. These Commissioners issued ordinances, *inter alia*, for degrees, for the instruction and graduation of women, for special study and research, and for the constitution of a Students' Representative Council with power to petition the Senatus Academicus and the Univ. Court.

The *Chancellor* is elected (for life) by the General Council, of which he is President. He is empowered to nominate a *Vice-Chancellor*, who may confer degrees in his absence, but cannot discharge any other of his duties. The Vice-Chancellorship is at the present time held in each Univ. on the Chancellor's nomination by the *Principal*, who is appointed to the Principalship by the Crown (except in Edinburgh) and is President of the Senatus Academicus, and, in the absence of the Rector, of the Univ. Court. The *Rector* is elected every 3 years by the matriculated students. He is the official President of the Univ. Court.

The *University Court* consists of the Rector, Principal, the Lord Provost of the City (in St. And. the Provost of St. Andrews and Lord Provost of Dundee), and Assessors appointed by the Rector, Chancellor, Senatus, General Council, and (except in St. Andrews) Town Council. In St. Andrews the Principals of St. Mary's Coll. and Univ. Coll., Dundee, are also included in it. There is provision for the representation of other affiliated Colleges. The Court, a body corporate with full power to administer the property belonging to the Univ., is a Court of Appeal from the Senatus, and has power, since the expiration of the powers of the Commrs. under the Act of 1889, to found new chairs with the approval of the Univs. Committee and make other ordinances with the approval of H.M. in Council. It has, *inter alia*, powers to appoint professors whose chairs are in the patronage of the Univ., examiners and lecturers; to define the nature and limits of a professor's duties under his commission; and to recognize for graduation purposes the teaching of any College or individual teacher, under the regns. providing for such recognition.

The *Senatus Academicus*, consisting of the Principal, the whole of the Profs., and certain elected Readers and Lecturers, is entrusted with the regulation and superintendence of the teaching and discipline of the



Univ. The administration of the Libraries and Museums is entrusted to Joint Committees elected two-thirds by the Senatus and one-third by the Court.

The *General Council* consists of the Chancellor, the members of the Univ. Court, the Profs., such Lecturers and Readers as have held office for a year, and the Graduates of the Univ. It meets twice a year and may hold special meetings at the instance of the Chancellor. Proposed improvements in the arrangements of the Univ. must be submitted to the Council for their consideration.

The General Councils of the four Universities elect three *Members of Parliament*.

**FACULTIES.** In all the Univs.—Arts, Science, Divinity, Medicine. In all except St. Andrews—Law. In Edin.—Music (Glasgow has a department and offers degrees in Music). In Glas. and Aberd.—Engineering (Edin. and St. And. have departments and offer degrees in Engineering, although not a separate Faculty).

**TERMS.** The academic year is divided into three terms—Oct. to Christmas, Jan. to March, April to June or early July.

**ADMISSION.** See Appendix I.

**DEGREES** and courses leading thereto (v. also p. 4 ff.). The *M.A.* (ordinary) course (there is no *B.A.*) extends over 3 yrs. and includes (for ordinary degree) subjects from 3 of the 4 departments of the Faculty, namely Lang. and Lit., Ment. Philos., Science, Hist. and Law. (There are further restrictions at St. Andrews and Edinburgh.) A candidate for the degree must not only have regularly attended, but also have duly performed the work of the classes in the qualifying courses. The first 2 yrs. may be taken in any of the Scottish Univs. The Senatus may accept attendance given and examns. passed at other Univs. specially recognized for the purpose, if qualifying courses for at least 2 yrs. (St. And. and Edin., 1 yr.) are attended and the Degree examns. are passed in the Univ. granting the degree. For the purpose of reckoning duration of study an academic yr. is constituted by attendance on at least 1 course (Glas. and St. And., 2 courses) of study in each of the 3 terms. For *M.A.* (Hons.) 4 yrs.' study is generally required.

The *B.Phil.* and *B.Litt.* are conferred only by St. And. A candidate for either of these degrees must take the *M.A.* either before or along with it. The standard of the Final examn. is that of the *M.A.* Honours.

The *B.Com.* conferred by St. And., Aberd., and Edin. may be taken, under conditions as to place of study similar to those for the *M.A.*, after courses covering at least 9 terms.

The *B.Ed.* or *Ed.B.* involves a 2 yrs.' course subsequent to the first 3 yrs. of study for a previous degree, in addition to professional training or experience as a teacher.

The practical part of the training of students preparing for the Teaching Profession is provided by the several Provincial Committees, which likewise recognize attendance at Univ. classes as qualifying in part for their certificates.

*The B.Sc. in Pure Science.* The course for the ordinary degree covers 3 yrs. (Edinburgh 4 yrs.) and includes from 6 to 9 courses, of

which 4 or 5 (St. And., 2) must be taken in the Univ. which is to grant the degree. The other courses may be taken in other Univs. or Institns. approved, or under teachers recognized for this purpose, by the Univ. Court. The degree with Honours, which may be taken in any of the various branches, requires 4 yrs., and is of a standard not less high than that required for M.A. (Hons.).

*The B.Sc. in Applied Science* can be obtained as follows : Engineering (St. And., ord. and hons., 3 yrs. ; Edin., ordinary and honours, both 3 yrs. ; Glas., 4 yrs., the branches in which honours are obtainable being Civ., Mech., Elec., Mining, and Chemical E., and Naval Archit. ; Aberd., Civ., Mech., Elec., ordinary and honours, 3 yrs.). Mining Engineering (Edin., ordinary and honours, 4 yrs.). Applied Chemistry (Glas., honours, 4 yrs.). Technical Chemistry (Edin., ordinary and honours, 4 yrs.). Architecture (Glas., honours, 4 yrs.). Agric. (Aberd., Edin., and Glas., ordinary, 3 yrs. : honours, 4 yrs.). Forestry (Aberd., ordinary, 3 yrs. ; Edin., ordinary, 3 yrs. ; honours, 4 yrs.). Pharmacy (Glas., 4 yrs.). Public Health (Glas., 2 yrs. after graduation in Med.). Vet. Sc. (Edin., 4 yrs.).

*Higher Degrees in Arts and Science.* The D.Sc. in Pure Science, in Engin. (Edin., Glas., St. And.), Pub. Health (Glas.), Mining (Edin.), Tech. Chem. (Edin.), Agric. (Edin.), Forestry (Edin.), and Vet. Sc. (Edin.), and the D.Litt. are open to graduates of 5 yrs.' standing. A thesis is required and, except in the case of a graduate of a Scot. Univ. with an Honours degree (St. And., an Honours graduate of the Univ. granting the degree), research under supervision extending over 2 yrs. in the Univ. which is to grant the degree. These degrees are never granted *honoris causa*.

*Divinity.* The B.D. examn. of any of the Univs. is open to a graduate in Arts of a Scottish or other approved Univ. or the holder of any Univ. Degree or Diploma recognized as an equivalent by the Univ. Court who has completed his Theol. course (3 yrs.), of which not less than 2 yrs. has been in the Univ. in which he proposes to take the B.D. All the examns. must be passed at the Univ. granting the Degree. The D.D. is honorary. The Gifford Lectures in Natural Theology are open to the general public.

*Law.* The B.L. course (3 yrs.) is open to students who have passed the Prelim. or its equivalent. Candidates for the degree must produce evidence of a sufficient knowledge of Latin before entering the Class of Civil Law. The LL.B. (3 yrs.) is open to graduates in Arts of a Univ. of the U.K. or any other specially recognized.

Of the B.L. course 1 yr. and of the LL.B. 2 yrs. may be spent in any specially recognized Univ. or School of Law.

St. And. does not at present provide full courses for or grant these degrees.

The LL.D. is honorary.

*Medicine.* Three of the requisite 5 yrs. of medical study for the M.B. and Ch.B. may be spent in any Univ. of the U.K. or other Institn. specially recognized for the purpose or under a teacher recognized by the Univ. A candidate who has at any such Univ. completed a course and passed an examn. in Chem., Physics, or Biology qualifying for a

degree in Science, Arts, or Med. may be exempted by the Senatus from the corresponding part of the M.B., Ch.B. exams. Aberd., Edin., and St. And. extend this concession to courses and exams. in Anatomy and Physiology qualifying for a degree in Science (St. And.—or Arts or Med.; Edin.—or Med.).

A graduate in Medicine of at least 24 yrs. of age who has, subsequent to graduation, been engaged for at least 1 yr. in attending the Med. (or Surg.) wards of a hospl., or in scientific work bearing directly on his profession, or in the Naval, Milit., Colonial (Aberd., Edin., Glas.), or, for the M.D. (St. And.—M.D. or Ch.M.), Pub. Health Med. Services, or 2 yrs. in practice not restricted to Surg. (or Med.), and passed the prescribed examn. and submitted a satisfactory thesis, may be admitted M.D. or Ch.M. as the case may be.

*Dentistry.* See under St. Andrews.

*Ph.D.* See p. 13.

Previous to the institution of a Ph.D. degree (Aberdeen, 24 March 1921, Edinburgh, 25 November 1919; Glasgow and St. Andrews, 18 August 1919), a Doctor of Philosophy degree, D.Phil., was conferred.

*FEEs.* See under the separate Universities.

RESEARCH OR SPECIAL STUDY may be prosecuted in a Univ. under supervision by persons suitably qualified, whether graduates or not, admitted by the Senatus. Access to and the use of the Univ. laboratories, etc., may be obtained on such conditions as to payment and otherwise as the Univ. Court may determine. The title of Research Fellow may be conferred with or without a stipend on specially distinguished research students.

SCHOLARSHIPS. Adequate provision is made for affording Univ. instruction and maintenance to students of small means in Scotland. Besides the Carnegie Trust benefactions (v. *infra*) and the numerous bursaries, etc., awarded by the Universities and the Trustees of unattached educational endowments, all Scottish Education Authorities make provision in their Bursary Schemes for assisting duly qualified persons resident in their areas, and needing such assistance, to attend a University, Training College, Central Institution, etc. The sum so spent by Education Authorities in the financial year 1936-37 was £94,956.

*Scholarships, etc., for Graduates.* The following are open to graduates of all the Scot. Univs.: (1) Carnegie Scholarships (£150) and Fellowships (£250) and grants in aid of Research. Application forms supplied by the Carnegie Trust, 22 Hanover St., Edinburgh. (2) Ferguson—six of £110 each for 2 yrs. for graduates in Arts. Ferguson Bequest Fund, 94 Bath St., Glasgow. (3) M'Cunn—four of £200 for 1 yr., for medical research. M'Cunn's Trustees, 160 West George St., Glasgow. (4) Shaw Philosophical—£215 for 3 yrs. for graduates in Arts (in the Patronage of Edinburgh Univ.). (5) Black—in Greek, £196 for 1 yr. for graduates in Arts distinguished in the B.D. exams. (6) Hume Brown—in Scottish History, £90 for 1 yr. for graduates in Arts; managed by the Univ. of Edin. (7) Maclean (Semitic Languages), £175 for 1 yr. for graduates in Arts preparing to enter the Ministry

of the Church of Scotland; managed by the Univ. of Glasgow. (8) Crombie (Biblical Criticism), £50 for 1 or 2 yrs. for graduates in Arts with First Class Hons. in Classics; managed by St. Andrews. (9) Shaw Macfie Lang, £200 for 2 yrs., for Hons. Graduates in various Faculties in rotation; (10) 7 Richard Brown, £64 for 1 yr., for graduates or undergraduates of any Univ., in various Faculties in rotation; managed by Edinburgh.

*Exchange Scholarships.* Stevenson Exchange Scholarships, founded by Sir Daniel M. Stevenson, Bt., LL.D. (1) In German, founded 1932, two scholarships covering board, lodging and tuition (but not travelling expenses) at a German University for one session. Open to undergraduates of any Faculty and graduates of not more than 25 yrs. of age, men and women, of any Scottish University. Applications in special cases will be considered from candidates up to 35 yrs. of age and from candidates who have not yet matriculated but who intend to take a degree in a Scottish University. Forms obtainable from, and applications to be sent not later than May 15 to, the Secretary of any one of the four Universities. (2) In French, founded 1935, two scholarships value £75 tenable at a French University for one year. Other conditions as for German Scholarships. (3) In Spanish, founded 1935, two scholarships value £75, tenable at a Spanish University for one year. Other conditions as for German scholarships.

Two scholarships offered by the Akademischer Austauschdienst of Berlin, representing the German Universities, tenable for 1 yr. from the middle of Oct. to the middle of Aug., covering free tuition and either board and lodging or an allowance during the 10 months' tenure (the decision resting with the German University authorities). Open to graduates of not more than 3 yrs.' standing and to students graduating during the current year, in any Faculty, men and women. Applicants should state the German University they prefer, but no guarantee can be given that they will be sent there. Applications by May 31. Forms, etc. as under (1) above.

**CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND.** Offices at Merchants' Hall, 22 Hanover Street, Edinburgh. Secretary, Jas. Robb, LL.D.; Treasurer, Jas. Davidson.

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The Regulations for Assistance in the payment of Class fees provide,

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The annual report of the Executive Committee contains reports of experts on the work of beneficiaries under the Research Scheme and lists of papers published by them. Research Fellowships, Scholarships, and Grants awarded for 1936-37 : St. Andrews—30, value £4393 ; Glasgow—37, value £4531 ; Aberdeen—26, value £2774 ; Edinburgh—34, value £4762. Total—127, £16,460.

Under a Seventh Quinquennial Scheme of Distribution for the period from Oct. 1, 1935, to Sept. 30, 1940, there has been allocated a sum of £257,300, distributed thus : St. Andrews centre—£43,400 ; Glasgow—£79,000 ; Aberdeen—£56,500 ; Edinburgh—£78,400. Of these amounts £10,000 has been granted to Glasgow, £10,500 to Aberdeen and £9500 to Edinburgh for Extra-Mural Institutions. The purposes on which these amounts were to be expended are : for libraries, £38,750 ; for Buildings and Permanent Equipment, £177,550 ; and for the Endowment of Teaching and for other general purposes, £41,000.

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Founded 1494

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Reid, J., M.A., C.A. Pt.-time Lectr.

Grant, John, M.A., C.A.

(Agric. Book-keeping)

Pt.-time Asst.

### *Agriculture, v. infra*

### *Anatomy*

Low, Alexr., M.A., M.D. Reg. Prof.

Mitchell, G. A. G., Ch.M. Lectr.

Barracrough, R., M.B., Ch.B.

Asst.

Beattie, P. H., M.B., Ch.B. Asst.

Connon, M., M.D., D.P.H.

Pt.-time Asst.

Slessor, A. J., M.B., Ch.B.

Pt.-time Asst.

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### *Astronomy and Meteorology*

Roberts, Owen F. T., M.C., M.A.

Camb.

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### *Bio-Chemistry*

Beard, E., B.Sc. Edin. Lectr.

### *Biology, v. Nat. Hist.*

### *Botany*

Matthews, J. R., M.A. Edin.,

F.L.S.

Reg. Prof.

Downie, Dorothy G., B.Sc., B.Sc.

(For.) Edin., Ph.D. Chic. Lectr.

Bond, T. E. T., B.Sc.(Agr.), M.Sc.

Reading

Asst.

Hare, C. L., M.Sc. Lond. Asst.

### *Celtic and Comp. Philology*

MacDonald, John, M.A. Reader.

### *Chemistry, v. also Agric. infra*

Findlay, Alexr., Ph.D. Leip., M.A.,

D.Sc.

Prof.

Reade, T. H., M.A. Camb., M.Sc.

Birm.

Lectr.

Humphries, J. E., B.A. Lond. and

Camb., M.Sc. Wales, Ph.D.

Lond., D.Sc. Lectr.

Strathdee, R. B., Ph.D. Camb.,

M.A., B.Sc. Lectr.

Clow, A., M.A., B.Sc., Ph.D. Asst.

Watson, M.B., B.Sc., Ph.D. Asst.

### *Chemistry, Clinical*

Lyall, Alex., M.A., M.D., M.R.C.P.

Lectr.

*Classics : Greek*

Cameron, A., M.A. Glas., B.A. Ox.  
Reg. Prof.

Stevens, P. T., M.A. Ox. Asst.

Murray, H. A., M.A. Asst.

*Classics : Latin*

Noble, P. S., M.A. Camb. and  
Aberd. (Humanity) Reg. Prof.

## Assistants

Raven, E. J. P., B.A. Camb.

Turner, E. G., B.A. Ox.

Addison, C. J. S., B.A. Camb.,  
M.A. Edin.

Weir, R., M.A. Pt.-time.

*Divinity*, v. Theol.*Economics*, v. Pol. Econ.*Education*

Walker, Norman T., M.A., Ed.B.,  
Ph.D. Glas. Lectr.

Smith, Vincent, M.A., B.Ed. Edin.  
Asst.

*Embryology*

Purser, G. L., M.A. Camb. Lectr.

*Engineering* [Jackson Prof.]

Blackadder, W., D.Sc. Edin.

Orkney, J. C., B.Sc. (Eng.) Glas.  
(Elec. E.) Pt.-time Lectr.

Edmond, A. D., B.Sc. (Eng.) Lond.  
(Mech. E.) Pt.-time Lectr.

Grassie, J. C., B.Sc. (Eng.) Glas.  
(Forest E.) Lectr.

## Pt.-time Assts. :

Stewart, F. R., B.Sc. (Eng.) Glas.  
(Agric. E.).

Cruikshank, A. (Agric. E.).

Chisholm, J. A. (Agric. E.).

*English*

Bickersteth, G. L., M.A. Ox,  
Reg. (Chalmers) Prof.

Taylor, W. D., B.A. Ox., M.A.  
Glas. (E. Lit.) Lectr.

Walker, R. S., M.A. Aberd. and  
Camb. Lectr.

Murison, W., M.A. Pt.-time Asst.

*Fine Art*

## Pt.-time Lectrs. :

Rollo, R. Leslie, F.R.I.B.A. (Prin-  
ciples and Hist. of Archit.).

Townend, H., M.A. (Painting).

Swainson, W., F.R.C.O., A.R.C.M.  
(Music).

Laird, Prof. J. (Theory of Art).

Cameron, Prof. A. (Sculpture).

*Fisheries, Scientific Study of*

Clark, R. S., M.A., D.Sc.

Pt.-time Lectr.

*Forestry*, v. also Engin.

..... Prof.

..... Lectr.

Laing, E. V., M.A., B.Sc. (For.),  
D.Sc. Lectr.

Aitkins, A. E., B.Sc. (For.) Edin.  
Asst.

Stewart, I. J., B.Sc. (For.) Asst.

*French*

Roe, F. C., M.A. Birm., L. ès L.  
Lyons, D. de l'U. Paris, O. A.

Prof.

Woledge, B., M.A. Leeds, D. de l'U.  
Paris Lectr.

Lough, J., B.A. Camb. Asst.

Glémet, R. J., L. ès L. Bordeaux  
Pt.-time Asst.

Lentz, E. E. Pt.-time Asst.

*Geography*

McFarlane, J., M.A. Edin., Camb.,  
M.Com. Manc. Reader.

Bremner, A., M.A., D.Sc. Edin.  
Pt.-time Asst.

*Geology*

Phemister, T. C., D.Sc. Glas.,  
Ph.D. Camb. Kilgour Prof.

Westoll, T. S., B.Sc., Ph.D. Durh.  
Lectr.

Dixon, C. G., B.Sc. Glas. Asst.

*German*

Yates, D., M.A. Birm., D.Phil.  
Bresl. Reader,

Witte, W., Dr. rer Pol. Breslau,  
Ph.D. Lectr.  
Brooke, K., B.A. Birm. Asst.

*Hebrew and Semitic Langs.*

Kennedy, Rev. A. C., M.A., B.D.  
Edin. Prof.

*History*, v. also Law, Theol.

Black, J. B., M.A. Glas. and Ox.  
Burnett-Fletcher Prof.  
Henderson, J. M., M.A. Edin.  
(Brit. Hist.) Lectr.  
Macdonald, D. F., D.Phil. Ox.,  
M.A. Asst.

*Law*, v. *infra*

*Logic*

Ferguson, A. S., M.A. St. And.  
and Ox. Reg. Prof.  
Davies, H. W., B.A. Ox. Asst.

*Mathematics*

Wright, E. M., B.A. Lond., M.A.,  
D.Phil. Ox. Prof.  
Goodwillie, J., M.A. Camb. and  
Edin., B.Sc. Edin. Lectr.  
Macintyre, A. J., B.A., Ph.D.  
Camb. Lectr.  
Potter, H. S. A., M.A., D.Phil. Ox.  
Asst.

*Medicine*, v. *infra*

*Meteorology*, v. Astron.

*Natural History*

Hogben, L., M.A. Camb., D.Sc.  
Lond., F.R.S. Reg. Prof.  
Neill, R. M., M.C., M.A. Glas.  
(Zool.) Lectr.  
Smith, H.G., B.Sc. Glas., Ph.D.  
Brist. (Zool.) Asst.  
Waring, H., M.Sc. Liv. Asst.  
Gordon, C., M.Sc. Cape Town,  
Ph.D. Lond. Asst.  
Landgrebe, F., B.Sc. Lond.  
Private Research Asst.

*Philology, Compar.*, v. Celtic

*Philosophy, Moral*

Laird, John, M.A. Edin. and  
Camb., LL.D. Edin., F.B.A.  
Reg. Prof.  
Davies, H. W., B.A. Ox. Asst.

*Philosophy, Natural* [Prof.

Carroll, J. A., M.A., Ph.D. Camb.  
Geddes, A. E. M., O.B.E., M.A.,  
D.Sc. Lectr.  
Griffith, H. D., B.A. Camb. Lectr.  
Baxter, A., M.Sc., Ph.D. Manc.  
Asst.  
Westcott, C. H., B.A., Ph.D.  
Camb., B.Sc. Lond. Asst.  
Rowland, E. N., B.A. Camb.  
Asst.

*Physiology*

Cruickshank, E. W. H., D.Sc.  
Lond., Ph.D. Camb., M.D.,  
M.R.C.P. Reg. Prof.  
Burns, W., B.Sc., M.B., Ch.B.  
(Exper. P.) Lectr.  
Irving, J. T., M.A., M.D., Ph.D.  
Camb. (Nutritnl. P.)  
Lectr.  
Orr, Sir J. B., D.S.O., M.C., M.A.,  
D.Sc., M.D. Glas., LL.D. St.  
And., F.R.S.  
(P. of Nutrition) Research  
Lectr.  
Kosterlitz, H. W., M.D. Berlin,  
Ph.D. Asst.  
Munro, A. F., B.Sc. Asst.

*Political Economy*

Fraser, L. M., M.A. Ox., Ph.D.  
Brookings Inst. Jaffrey Prof.  
Macdonald, Annie, M.A. (With  
status of Lectr.) Asst.  
Hamilton, H., M.A., D.Litt. Glas.  
(Econ. Hist.) Lectr.

*Psychology, Comparative*

Knight, A. R., M.A. Syd. and  
Camb. Anderson Lectr.  
Knight, Mrs. Margaret, B.A.  
Camb. Asst.



*Spanish*

Davidson, C., M.A. Lectr.

*Statistics*Tocher, J. F., D.Sc., LL.D.  
Pt.-time Coll Lectr.*Theology*Baird, A. C., D.D., M.A., B.Sc.  
Glas. (Bibl. Crit.) (to 30, 9,  
'38) Prof.Henderson, G. D., D.D., M.A.,  
D.Litt. Glas. (Church Hist.)  
Prof.Graham, J. M., M.A. Glas. (Sys-  
tematic T.) Prof.Macleod, J., M.A. Glas., D.D.  
Halifax (Christian Dogmatics)  
Prof.Findlay, A. F., M.A., D.D. (Chris-  
tian Ethics and Practical T.)  
Prof.Robertson, J. A., M.A., B.D. (Chris-  
tian Origins and Early Church  
Hist.) Pt.-time Lectr.*Zoology, v. For., Nat. Hist.**Agriculture*(v. also Acctg., Engin. and *infra*  
North of Scotland Coll. of Agr.)  
Hendrick, J., B.Sc. Lond.Strathcona-Fordyce Prof.  
Donald, G., B.Sc. (Agr.)  
Interim Pt.-time Lectr.*Pt.-time Assts. :*Findlay, W. M., N.D.A. (Seed  
Testing)

Bain, R., B.Sc. (Agr.) Glas.

*Agric. Chemistry**Pt.-time Assts. :*

Hill, Alfred, B.Sc., B.Sc. (Agr.)

Moore, W., B.Sc., B.Sc. (Agr.)

*Agricultural Law*Wilson, N. J., M.A., LL.B.  
Pt.-time Asst.*Soil Science*Ogg, W. G., Ph.D. Camb., M.A.,  
B.Sc., B.Sc. (Agr.)  
Research Lectr.*Veterinary Hygiene and Agr.  
Bacteriology*Grant, J. C., M.R.C.V.S.  
Pt.-time Lectr.*Law*Taylor, T. M., M.A., LL.B. Prof.  
Shewan, F. G. D., M.A., LL.B.Pt.-time Asst.  
MacRitchie, F., M.A., LL.B.  
Pt.-time Tutor.*Constit. L. and Hist.*Cruikshank, J. S. R., B.A. Camb.,  
LL.B. Edin. Pt.-time Lectr.*Conveyancing*Morrison, A. C., O.B.E., M.A. St.  
And., LL.B. Glas.  
McLennan Prof.*Internat. L., Public and Private*Mackinnon, L., Jr., D.S.O., M.A.,  
LL.B. Pt.-time Lectr.*Mercantile Law*Esslemont, W. D., M.A., B.L.  
Pt.-time Lectr.*Procedure and Evidence*Edwards, J. H., M.A., LL.B.  
Pt.-time Clark Lectr.*Roman Law*[Pt.-time Lectr.]  
Masson, R. P., M.A., LL.B.*Medicine*(for subjects of the first 2 yrs.—  
Anat., etc., v. *supra*)*Bacteriology*Cruikshank, J., M.D. Glas. Prof.  
MacLennan, J. D., M.B., Ch.B.Asst.  
Smith, John, D.Sc., M.D., D.P.H.,  
M.R.C.P. Pt.-time Lectr.*Children, Diseases of*Brown, W., O.B.E., M.B., Ch.B.  
Edin., F.R.C.P.E.  
Pt.-time Lectr.

*Children, Surgical Dis. of, and  
Orthopaedics*

Mitchell, A., M.A., Ch.M.  
Pt.-time Lectr.

*Forensic Med.*

Pt.-time Lectrs. :

Richards, R., M.A., M.D.,  
F.R.C.S.E.

Williamson, G., M.A., M.B., C.M.,  
F.R.C.P.E. (Med. Ethics)

Gibb, M.G., M.B., Ch.B.  
Pt.-time Asst.

*Materia Medica*

Campbell, D., M.C., M.A., B.Sc.,  
M.D. Glas., F.R.F.P.S. Glas.

Reg. Prof.  
Morgan, T. N., M.D. Lectr.

*Medicine*

Davidson, L. S. P., B.A. Camb.,  
M.D. Edin., M.R.C.P., Lond.,  
F.R.C.P.E. Reg. Prof.

Fullerton, H. W., M.A., M.D.  
Lectr.

Mackenzie, J. R., M.D. (Anæs.)  
Pt.-time Lectr.

Anderson, A. G., M.A., M.D.,  
F.R.C.P. (Clin.)

Pt.-time Lectr.

Hendry, A. W., O.B.E., M.D.,  
M.R.C.P. Pt.-time Lectr.

Nicol, B. M., M.B., Ch.B.  
Pt.-time Asst.

Duthie, J. J. R., M.B., Ch.B.  
Pt.-time Asst.

*Midwifery*

Baird, D., B.Sc., M.D., D.P.H.  
Glas., F.C.O.G. Reg. Prof.

Davidson, G. S., M.A., M.B., Ch.B.  
M.C.O.G. (Clin.)

Pt.-time Lectr.

Milne, G. P., M.B., Ch.B., D.C.O.G.  
Lond. Pt.-time Asst.

Roworth, C. G., M.B., B.S.  
Lond., M.R.C.S., L.R.C.P.

Pt.-time Asst.

*Ophthalmology*

Souter, W. C., M.D., D.O. Ox.  
Pt.-time Lectr.

Galloway, A. R., O.B.E., M.A.,  
M.B., C.M. Pt.-time Lectr.

Smith, H. E., M.A., M.B., Ch.B.  
Pt.-time Lectr.

*Pathology*

Young, J. S., M.C., M.A., B.Sc.,  
M.D. Glas.

Reg. (Wilson) Prof.  
Davidson, W. M., M.B., Ch.B.

(Morbid Anat.) Lectr.  
Morgan, A. D., M.A., M.B., Ch.B.

Asst.

Evans, W. G., M.B., B.S. Lond.,  
M.R.C.S., L.R.C.P. (Malignant  
Dis. and Radium Officer)

Georgina McRobert Lectr.

*Psycho-Pathology*

MacCalman, D. R., M.D. Glas.  
Lectr.

*Public Health and Infectious  
Diseases*

Berry, D. W., M.C., M.D., D.P.H.  
Lectr.

Pt.-time Lectrs. :

Rae, H. J., M.C., M.A., M.B.,  
Ch.B., D.P.H.

Merewether, Edward R. A., M.D.  
Durh. (Factory Hyg.)

Otty, J. H., M.A., M.B., Ch.B.,  
F.R.C.S.E., D.L.O.

(Diseases of the Ear, Nose,  
and Throat).

Brown, J., M.B., Ch.B., D.P.H.  
(Vaccination).

Brown, R. D., M.D. Edin.,  
F.R.C.P.E. (Mental Diseases).

Anderson, T. E., M.D. (Diseases  
of the Skin).

Bowie, F. J. T., M.B., Ch.B.,  
D.P.H. (Ven. Dis.).

*Radiology and Electro-Thera-  
peutics*

Blewett, J. E., M.D. Melb., D.M.R.  
Lond. Pt.-time Lectr.

*Surgery*

Learmonth, J. R., Ch.M. Glas.,  
F.R.C.S.E. Reg. Prof.

Pt.-time Lectrs. :  
 Smith, F. K., M.A., M.B., Ch.B.  
 (Clin.).

Anderson, W., O.B.E., M.B.,  
 Ch.B., F.R.C.S.

Pt.-time Assts. :  
 Logie, N. J., M.B., Ch.B., F.R.C.S.  
 Davidson, S. G., M.A., M.B., Ch.B.,  
 F.R.C.S.  
 Philip, J. F., Ch.M.

#### *Tropical Medicine*

Williamson, G. A., D.T.M. Liv.,  
 M.A., M.D., D.P.H.  
 Pt.-time Lectr.

#### *Tuberculosis*

Banks, G. S., M.B., Ch.B., D.P.H.  
 Edin. Pt.-time Lectr.

#### Gifford Lecture in Nat. Theol.

1936-38, Prof. Karl Barth, D.  
 Theol., D.D., LL.D. (Univ. of  
 Basle).  
 1938-40, Prof. A. D. Nock, M.A.,  
 LL.D. (Harvard Univ.).

#### Physical Training

Director : Capt. A. W. Brocks,  
 M.C., M.B.E.; Asst. : Mrs.  
 E. M. Campbell.

## ASSOCIATED COLLEGES

NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. III. p. 887.  
 Director of Studies and Research—J. Hendrick, B.Sc., F.I.C., Strathcona-  
 Fordyce Prof. of Agric. and Lectr. in Agr. Chem. Lectrs. : *Agr. Bot.*, D.  
 Clouston, M.A., B.Sc. (Agr.), D.Sc.; *Agr. Zool.*, D. Robertson, B.Sc. (Agr.),  
 Ph.D., N.D.A.; *Agric., Principles of*, G. Donald, B.Sc. (Agr.) (Interim);  
*Bee-keeping*, J. Anderson, M.A., B.Sc., Ph.D.; *Hortic.*, G. E. Greenhowe;  
*Trop. Hyg.*, G. A. Williamson, M.A., M.D., D.P.H., D.T.M.; *Vet. Hyg.*, J. C.  
 Grant, M.R.C.V.S.; 2 Advisory Officers (Entomol. and Grassland Manage-  
 ment), 1 Agr. Economist, 1 Asst. Lectr., 12 Assts., 1 Director of County  
 Work, 14 County Organizers, 1 Asst. Organizer, 15 County Instructresses.

ROBERT GORDON'S TECHNICAL COLLEGE. Under the Aberdeen Educa-  
 tional Endowments Scheme, 1934, the Governors, in continuation and develop-  
 ment of the College, provide, maintain, furnish, equip, administer and conduct  
 schools of Engineering, Mathematics and Physics, Chemistry, Pharmacy,  
 Navigation, Art (including Drawing, Painting, Design, Sculpture, Architecture,  
 Building and Surveying), Domestic Science, Commerce and such other subjects  
 connected with education in science, art and technology as they think fit.  
 The School of Art is known as Gray's School of Art. The Court of the Univ.  
 and the Governors of the Coll. co-operate in the provision of day courses  
 leading to the degree of B.Sc. (Eng.) of the Univ. and to the Diploma of  
 Associateship of the Coll. in Eng.—Civ., Mech., and Elect. The courses in  
 Mech. and Elect. Engin. are recognized under the schemes for the award  
 of National Diplomas. Classes in Agric. Engin. are provided in con-  
 nexion with the degree of B.Sc. (Agr.) of the Univ. and the Diploma of the  
 N. of Scotland Coll. of Agric. Courses for Marine Engineers are provided in  
 preparation for the exams. of the several grades of Certifs. of competency  
 issued by the Bd. of Trade, including that for Extra-First Class and also for  
 Engineer Surveyors under the Bd. of Trade and Lloyd's. Evening courses in  
 the higher branches of Civ., Mech., Elect., Automobile Engin., Naval Archit.,  
 Maths., Physics, and in Papermaking.

*Fees.* All fees for degree courses payable at the Univ. (v. *infra*). For  
 Associateship, 1st yr. £21, 2nd and 3rd yrs., each £25 (plus matricn. fee,  
 2nd and 3rd yrs., 2 gs.). For Nat. Diploma, 1st yr. £21, 2nd £25, 3rd £20.

*Staff.*—*Art*, Hd. of School, D. M. Sutherland, M.C., R.S.A. ; 5 Principal Teachers, 7 Asst. Teachers. *Chem.*, Hd. of School, W. Maitland, D.Sc. ; Lectrs. : R. Craven, B.Sc., A.R.C.S., F.I.C., R. Graham, B.Sc., Ph.D., A.R.T.C., J. E. Ritchie, B.Sc., F.I.C. *Domestic Sci.*, Hd. of School, Annette G. Kelly ; 4 principal Teachers, 8 others. *Engin.*, Hd. of School, Prof. W. Blackadder, D.Sc. *Engin., Civil*, The Univ. Prof. of Engin. and staff and F. R. Stewart, B.Sc. (Eng.). *Engin., Electrical*, Hd. of Dept., J. C. Orkney, B.Sc. (Eng.), Lectrs. : G. C. Colmar, B.Sc. (Eng.), P. D. Burr, B.Sc. (Eng.) ; 1 Lab. Asst. *Engin., Mechanical*, Hd. of Dept., A. D. Edmond, B.Sc. (Eng.), A.R.T.C., M.I.Mech.E., M.I.Mar.E. ; Lectrs. : J. A. Chisholm, A.H.W.C. Edin., A. A. Butler, B.Sc., W. A. Linning, B.Sc. (Eng.), W. G. Strachan, A.I.A.E. ; 2 Lab. Assts. *Marine Engin.*, Lectrs. : W. P. Hunter, M.I.Mar.E., C. Hay. *Maths. and Physics*, Hd. of Dept., J. D. Stewart, M.A. ; Lectrs. : J. S. Morgan, M.A., J. R. Coull, M.A. ; 1 Physics Lab. Asst. *Navigation and Seamanship*, Hd. of School, Leslie Watt, C. R. Cameron, R. H. Wigglesworth ; Lectr. in Ambulance Work, J. A. Mearns, M.B., C.M. *Paper-making*, Lectrs. : . . . . . *Paper-testing*, Lectr. : Helen M. McKenzie, M.A., B.Sc. *Pharmacy*, Hd. of School, J. E. Bowen, B.Sc., Ph.C., A.I.C. ; Lectrs. : D. S. Rattray, Ph.C. (Pharmaceutics), Euphemia C. Barnett, B.Sc. (Bot.), E. Thorpe, B.Pharm., Ph.C. (Pharmacognosy), D. O. Pinkerton, B.Sc.

## GENERAL INFORMATION, v. also pp. 341 ff.

The "University and King's College of Aberdeen," founded under a Papal Bull in 1494, and the "Marischal College," founded in 1593 by George Keith, Earl Marischal, were reconstituted in 1860 as "The University of Aberdeen." Certain of the original buildings remain, notably the Chapel (A.D. 1500).

The LIBRARY, founded in 1500, has 250,000 vols. and 200 *incunabula*, some unique. It is especially rich in Celtic literature, and books bearing on the history, topography, and antiquities of the Scottish Highlands, and Classical Archæology. It also contains the McBean Jacobite collection, reputed to be the largest in the world outside the British Museum. Annual budget about £3500. MUSEUMS: Anthropological (illust. cat. 1s.), Surgical (2500 specimens and 600 instruments), etc. Besides the usual LABORATORIES there is the Rowett Institute of Research in *Animal Nutrition* near Bankhead, with depts. of Physiol., Bio-Chem., Bacteriol. and Pathol., and attached Animal Husbandry section for practical experiments in feeding, etc. (v. App. III. A. I. (d)). It is under the management of a joint committee of the Univ. and the N. of Scotland College of Agric. Hospitals available for clinics: Infirmary, 500 beds; Woodend Hospital, 180; Children's, 150; Fever, 350; Mental Hospital, 900; Maternity Hospital, 32; Ophthalmic Institution, 5.

FACULTIES. Arts, Science, Divinity, Law, Medicine. *Deans*: Profs. A. S. Ferguson, J. R. Matthews, A. Fyfe Findlay, T. M. Taylor, D. Campbell. Departments: Commerce, Education.

## ADMISSION and ADVANCED STANDING, v. Appendix I.

DEGREES, ETC., v. pp. 342 ff. A Diploma is conferred in Public Health (D.P.H.).

FEES (v. also Carnegie Trust, p. 345). Matriculation, 2 gs. p.a. Inclusive fees for tuition: M.A. (Hons.), 60 gs.; M.A. (Ord.), 45 gs.; B.Com., 45 gs.; B.Sc. (Pure Science, Agriculture, Forestry, and Engineering), 90 gs.; B.Sc. (Hons.), 100 gs.; B.D., 40 gs.; LL.B., 40 gs. (28 gs. for M.A. of the Univ.); B.L., 30 gs.; M.A. and B.Sc. taken together, 112½ gs.; M.A. (Hons.) and B.Sc.

taken together, 127½ gs. ; M.A. and B.Com., 75 gs. ; B.Sc. and B.Com., 112½ gs. ; M.B., Ch.B., 126 gs. ; B.Sc., M.B., and Ch.B., 168 gs. ; M.A., B.Sc., M.B., and Ch.B., 202 gs. The total cost of the whole medical curriculum, including hospital fees, classes, matricn., and degree fees, is usually about £240. Degree : M.A., 7½ gs. ; B.Sc., 9 gs. ; B.D., 7½ gs. ; B.L., 7½ gs. ; LL.B., 9 gs. ; M.B., Ch.B., 33 gs. ; Doctorates from 10 to 20 gs. The class and examn. fees for the D.P.H. are £47 : 5s

SCHOLARSHIPS, ETC., for graduates (v. also pp. 344-45), about 25 ; aggregate annual value about £1600. *Travelling Scholarships* : Anderson, for medical graduates, about £200 p.a. for 2 yrs. ; Kilgour, £200-£250 for graduates in Natural Science or Natural History, Robbie, £70-£85 p.a. in Maths., Nat. Philos., and Chem. ; John Stephen, £90 p.a. in Econ. for 2 yrs. ; Yuill, £150 for 1 yr., renewable in Indust. and Agr. Chem. *Travelling Fellowship* : Wilson, for archæological research in the Near East, £300 p.a. for 2 yrs. Particulars obtainable from Sec. to Wilson Trustees, A. Martineau, 1 Golden Square, Aberdeen. George Thompson, in Med., for 2 yrs. (1 yr. abroad).

RESIDENCE. List of lodgings kept by Students' Representative Council.

APPOINTMENTS COMMITTEE. There is a Committee which advises students as to preparation for entrance to various Government Services and other appointments. All communications to be addressed to *The Secretary*.

PHYSICAL WELFARE OF STUDENTS. There is a Dir. of Phys. Training, with a woman asst. for women students.

PUBLICATIONS. *Calendar* (Sept), 4s. ; *Univ. Review*, 7s. 6d p.a. (3 issues) ; *Students' Handbook and Diary* (Nov), 1s. ; *Alma Mater* (organ of S.R.C.).

## THE YEAR 1936-37

BENEFACTIONS. Carnegie Trust, Edinburgh, £34,419 : 11 : 5 (books for Library, £1000 ; Feu-duty, Powis Lodge, Old Aberdeen, £156 : 8 : 10 ; salaries of Carnegie Teaching Fellows, £1354 : 3 : 4, towards Students' new Union, £4441 : 15 : 5 ; towards new Medical Buildings, £27,467 : 3 : 10) ; Patricia E. MacQuibban, Aberdeen, Bequest for Memorial Prize Fund in Surg. and Med., £2000 ; Emeritus Prof. John Theodore Cash, F.R.S., Bequest for foundation of Medal in Pharmacol., £450 ; Carnegie Corporation of New York, towards cost of publication of catalogue of MacBean Jacobite collection of books, £306 : 8 : 7 ; Dr. William Dey's Trustees, purchase of books for Library, £200 : 15 : 10 ; J. A. Ross, Aberdeen, donation to Buildings Fund, £143 ; William Valentine, Kintore, donation towards Lectureship in Psycho-Pathol., £100 ; Lord Glanely, towards fund for Rheumatic Research, £75 : 14s. ; Crombie-Ross Fund, Aberdeen, towards lectures in Psycho-Pathol., £70 ; Kingwell's Trust, Aberdeen, for general purposes, £51 ; Sir Thomas Jaffrey, Bt., donation for Buildings Fund, £64 : 6s. ; Dr. George S. Middleton, towards Bequest for general purposes, £30 ; Arthur William Garden, towards Bequest for Med. or Surg. Research, £15.

NEW BUILDINGS. In conjunction with the Joint Hospitals scheme, new buildings to accommodate the Depts. of Surgery, Medicine, Midwifery, Materia Medica, Pathology, Bacteriology, Public Health, Forensic Medicine, and Clinical Chemistry are in course of erection at Foresterhill, Aberdeen ; it is anticipated that the buildings will be completed and equipped for occupation in 1938. Reconstruction of buildings purchased for a new Students' Union in progress.

GENERAL LECTURES. Prof. E. W. H. Cruickshank, "Nutrition and Physical

Fitness"; Dr. Robert Hutchison, London, "The Progress and Present Aspect of Medical Science"; R. Leslie Rollo, "Architectural Solutions to the Housing Question"; Prof. Herbert R. Hamley (Univ. of London), "The Progress and Present Aspect of Educational Science"; H. L. Wellington, "English Painting and Sculpture during the last Fifty Years"; Prof. J. E. Verschaffelt (Univ. of Ghent), "Affinity as the Cause of Irreversible Processes"; Prof. Karl Barth, (Univ. of Basle), Gifford Lecturer, "The Knowledge of God and the Service of God according to the Teaching of the Reformation—recalling the Scottish Confession of 1560"; Prof. A. Gratia (Univ. of Liège), "The Problem of the Viruses"; Willan Swainson, "The Organ Works of John Sebastian Bach"; Prof. Alfred Adler (Long Island Coll. of Med.), "Psycho-Pathology."

POST-GRADUATE SCHOOL OF MEDICINE. A Post-graduate course in Surgery and Medicine was held during Summer Term, 1937.

ADDITIONS TO STAFF. Lecturers: Maths. (2); Nat. Philos. (1); English Lang. and Lit. (1); Mat. Med. (1); Assts. (Pt.-time): Anat. (1); Compar. Psychol. (1).

RETIREMENTS. Prof. Alexander Souter (Humanity); Prof. David Smith Cairns (Christian Dogmatics).

RESIGNATIONS. John Johnston (Anæsthetics); Gilbert Forbes (Anat.); John A. Innes (Clin. Med.); George K. Fraser (Forest Chem.); Ian G. W. Hill, (Med.).

DEATHS. Prof. Albert William Borthwick (Forestry); John Theodore Cash, F.R.S. (Emeritus Prof. of Materia Medica); John Alexander MacWilliam, F.R.S. (Emeritus Prof. of Physiol.); Charles Sanford Terry (Emeritus Prof. of Hist.); Alfred William Gibb (Emeritus Prof. of Geol.); Robert Gordon McKerron (Emeritus Prof. of Midwifery); Hugh Ross Souper (Dis. of Ear, Nose and Throat).

HONORARY DEGREES. *D.D.*—Stanley Arthur Cook, Thomson Macmillan, James Horne Morrison. *LL.D.*—Olaf Bloch, David H. Crawford, Naughton Dunn, Alfred William Gibb, Einar Löfstedt, Hon. Vincent Massey, Arthur Cecil Pigou, Theodore Shennan, James Fowler Tocher.

STUDENTS. 1215 (men, 887; women, 328).

DEGREES. B.D., 1; M.A. (Ord.), 78; M.A. (Hons.), 38; D.Litt., 1; B.L., 9; LL.B., 11; Ed.B., 1; B.Com., 3; B.Sc. (Ord.), 8; B.Sc. (Hons.), 5; D.Sc., 5; B.Sc. (Agr.) (Ord.), 5; B.Sc. (Agr.) (Hons.), 2; B.Sc. (For.), 2; B.Sc. Eng. (Ord.), 6; B.Sc. (Eng.) (Hons.), 2; M.B., Ch.B. (Ord.), 94; M.B., Ch.B. (Hons.), 8; M.D., 8; Ch.M., 1; Ph.D. (Arts), 1; Ph.D. (Sci.), 2.

DIPLOMAS, ETC. Diploma in Public Health, 3; Certificate in Education, 1.

# UNIVERSITY OF EDINBURGH

Founded 1583

CHANCELLOR—RT. HON. BARON TWEEDSMUIR OF ELSFIELD, G.C.M.G.,  
C.H., M.A., D.C.L., LL.D.

VICE-CHANCELLOR AND PRINCIPAL—SIR THOMAS H. HOLLAND, K.C.S.I.,  
K.C.I.E., LL.D. Manc., Glas., Edin., Aberd. and St. And., D.Sc.  
(Eng.) Witwatersrand, F.R.S., D.L.

RECTOR—SIR HERBERT J. C. GRIERSON, M.A. Aberd. and Ox., Litt.D.  
Camb., LL.D. St. And., Aberd. and Edin., F.B.A.

SECRETARY TO THE UNIVERSITY—W. A. FLEMING, M.A., LL.B., J.P.,  
Advocate.

SECRETARY TO THE GENERAL COUNCIL—T. F. HARLEY.

LIBRARIAN—F. C. NICHOLSON, M.A.

ACCOUNTANT—G. D. STEWART, C.A.

Telephone : Edinburgh 41001.

## TEACHING STAFF

<i>Accounting and Business Method</i>		Newton, R. H., B.A. Camb., M.D., F.R.C.P.E.	Asst.
Annan, W., M.A., C.A.	Prof.		
Baxter, W. T., B.Com.	Lectr.	Borthwick, J.	Tech. Asst.
Keddie, C., C.A.	Asst.	<i>Anatomy, Comparative</i>	
		.....	Lectr.
<i>Actuarial Science</i>		Grahame, T., M.R.C.V.S.	Asst.
Aitken, A. C., D.Sc.	Lectr.	<i>Anthropology</i>	
Dow, J. B., M.A., F.F.A.	Lectr.	Childe, Prof. V. G. Munro	Lectr.
<i>Agriculture, v. infra</i>		<i>Arabic</i>	
<i>Anatomy</i>		Bell, Richard, M.A., D.D.	Lectr.
Brash, J. C., M.C., M.D. Birm., M.A., M.B., Ch.B., F.R.C.S.E.	Prof.	<i>Archæology, Classical</i>	
Jamieson, E. B., M.D.	Lectr.	Wason, C. R., B.A.	(to 30.9.38) Lectr.
Jardine, F. E., M.B., Ch.B., F.R.C.S.E.		<i>Archæology, Prehistoric</i>	
(Applied A.)	Lectr.	Childe, V. G., B.A. Syd., B.Litt. Ox.	Abercromby Prof.
.....	Lectr.	<i>Art (Fine Art)</i>	
Walmsley, R., M.B., Ch.B.	Lectr.	Rice, D. Talbot, M.A., B.Sc.	
Craig, R. C., M.B., F.R.C.S.E.		Watson Gordon Prof.	
(Applied A.)	Asst.	<i>Astronomy</i>	
Stirling, R. J., M.B., F.R.C.S.E.		Greaves, W. M. H., M.A. Camb., F.R.A.S.	Reg. Prof.
(Applied A.)	Asst.		

*Banking*

Turnbull, M. McK. [Bruce Lectr.

*Biology, v. Nat. Hist.**Botany, v. also Forestry*

Smith, Sir Wm. Wright, M.A.,  
D. ès Sc., F.L.S. Reg. Prof.  
Wilson, M., D.Sc. (Mycol. and  
Bacteriol.) Reader.  
Smith, J. L. S., M.A., B.Sc.  
(Forest B.) Lectr.  
Anthony, J., M.C., M.A., B.Sc.  
(Botany) Lectr.  
Nelson, A., B.Sc., Ph.D. (Plant  
Physiol.) Lectr.  
Watson, E. V., B.Sc. Asst.  
Bouhey, A. S., B.Sc. Lond. Asst.

*Celtic Languages, etc.*

Watson, W. J., M.A. Ox., D.Litt.  
Celt., LL.D. Prof.  
Matheson, A., M.A. Asst.

*Chemistry*

Kendall, James P., M.A., D.Sc.,  
F.R.S. Prof.  
Mackenzie, J. E., D.Sc., Ph.D.  
Reader.  
Rule, H. G., Ph.D., D.Sc. Lectr.  
Butler, J. A. V., D.Sc. Lectr.  
Bolam, T. R., D.Sc. Lectr.  
Ludlam, E. B., M.A., D.Sc. Lectr.  
Miller, Miss C. C., B.Sc., Ph.D.  
Lectr.  
Campbell, N., B.Sc., Ph.D. Lectr.  
Percival, E. G. V., B.Sc., Ph.D.  
Lectr.  
Bolam, Mary R. (Mrs.), B.Sc.,  
Ph.D. Asst.  
19 other Assts.

*Chemistry in relation to Medicine*

..... Prof.

*Lecturers :*

Stewart, C. P., M.Sc. Durh., Ph.D.  
Stedman, E., B.Sc., Ph.D.  
Stedman, Ellen (Mrs.), M.Sc.  
Van Rooyen, C. E., M.D.

*Assistants :*

Easson, L. H., B.Sc., Ph.D.  
Klein, C. W., B.A., B.Sc. Ox.

*Chemistry, Technical*

Bain, David, D.Sc. Lectr.

*Classics : Greek*

[Prof.  
Calder, W. M., B.A. Ox., M.A.  
Manc., LL.D. Aberd., F.B.A.  
Forbes, P. B. R., M.A. Camb.  
Lectr.

Coxon, A. H., B.A. Lectr.  
Bruce, F. F., M.A. Aberd., B.A.  
Camb. Asst.

*Classics : Latin*

[Prof.  
Richmond, O. L., M.A. Camb.  
Campbell, D. J., M.A. Lectr.  
Potter, K. R., M.A. Lectr.  
Smith, W. K., B.A. Lectr.  
Nicolson, Miss C. A., M.A. Asst.  
Cook, J. N., B.A. Camb. Asst.

*Commerce, and Organization of Industry, v. also Acc., Banking*

Oliver, W., B.Sc. Prof.  
Sutherland, D. G., B.Sc. Asst.

*Commercial and Polit. Econ. and Merc. Law, v. also Law*

Gray, Alexander, M.A. Prof.

*Lecturers :*

Birnie, A., M.A. (Econ. Hist.).  
Rankin, Mary T., M.A., D.Phil.  
Joynt, Thomas A., M.A.  
Henderson, A., B.A. Camb.

Aitken, A. C., D.Sc., F.R.S. (Stat-  
istics and Math. Econ.).  
Pattison, Jean S., M.A. Asst.

*Cytology, v. Nat. Hist.**Divinity*

Baillie, Rev. J., M.A., D.Litt.,  
D.D. Prof.  
Curtis, Rev. Principal W. A.,  
M.A., D.Litt., D.D.  
(Biblical Criticism and  
Bib. Antiq.) Prof.



Burleigh, Rev. J. H. S., M.A.,  
B.Litt., B.D.

(Eccl. Hist.) Prof.

Manson, Rev. W., M.A., D.D.  
(N.T. Lang. and Lit.) Prof.

Thomson, Rev. G. T., B.A. Ox.,  
M.A. Edin., D.D. Aberd. and  
Edin. (Christian Dogmatics)  
Prof.

Watt, Rev. H., B.D. (Church  
Hist.) Prof.

Rankin, Rev. O. S., M.A., B.D.,  
D.Litt. (O.T. Lang. and Lit.)  
Prof.

Perry, Rev. Dean W., D.D. Lectr.

Lamont, Very Rev. Prof. D., M.A.,  
D.D. Reader.

Thornton, C. T., M.A., B.D. Lectr.

Mathers, Rev. J., O.B.E., B.D.  
Asst.

Cameron, Rev. D., D.D. Asst.

*Economics*, v. Comm. and Pol.  
Econ.

*Economics, Social*

Milnes, Nora, B.Sc. Lectr.

*Education*

Thomson, Godfrey H., D.Sc. Durh.,  
Ph.D. Stras. (Dir. of Studies,  
Provincial Training College)  
Prof.

Milne, A., D.Sc. Lectr.

Mowat, G., M.A., B.Ed. Lectr.

Bain, Margaret J., M.A., Ph.D.

Lectr.

Lothian, A. J. D., M.A. Lectr.

Assistants :

Bickersteth, Marguerite E., Ph.D.

Emmett, W. G., M.A.

Thomson, Edith J. M., M.A., B.Ed.

Mowat, A. S., M.A.

*Engineering*

Beare, Sir Thos. Hudson, B.A.,  
B.Sc. Adel., LL.D. Reg. Prof.

Todd, J. B., B.Sc., Ph.D. (Surv.  
& Hydraulics) Reader.

Lecturers :

Cowan, Lt.-Col. S. Hunter, D.S.O.  
(Forest Engin.).

Stewart, David S., B.Sc., Ph.D.

Patterson, C.

Davidson, M., Ph.D. (Heat  
Engines).

Carswell, J. I., B.Sc., Ph.D.

Stevenson, E., B.Sc.

Dudgeon, W., B.Sc. Asst.

Herbstritt, K., B.Sc. Asst.

*English Lit. and Rhetoric*

Wilson, J. Dover, C.H., M.A.,  
D.Litt., F.B.A. Reg. Prof.

Kitchin, G., M.A., D.Litt. Lectr.

Schram, O. K., M.A., Ph.D.

(E. Lang.) Lectr.

Clark, A. M., M.A., D.Phil. Lectr.

Wood, H. H., M.A. Lectr.

Murrie, Mrs. W. S., M.A., Ph.D.

Asst.

Logan, R. M., M.A. Asst.

Macdonald, Angus, M.A. Asst.

3 Pt.-time Assts.

*Entomology*, v. *infra* Agric.

*Forestry*, v. *infra* Agric.

*French and Romance Philol.*

Orr, J., M.A., B.Litt. Ox., D.Litt.

Manc., L. ès L. Paris Prof.

Burns, Mary, M.A., D. de l'U.

Paris Lectr.

Poulet, G., D. en Phil. et L., D. en

Droit Liège Lectr.

Gill, A., M.A. Lectr.

Alexander, I. W., M.A. Asst.

4 Assts.

*Geography*

Ogilvie, Alan G., O.B.E., M.A.,  
B.Sc. Ox. Prof.

Linton, D. L., M.Sc. Lectr.

Geddes, A., D. es L. Montp., Ph.D.

Lectr.

Snodgrass, Catherine P., M.A.,  
Ph.D. Asst.

*Geology* [Reg. Prof.

Jehu, T. J., M.A. Camb., M.D.

Campbell, R., M.A., D.Sc. (Petrology) Reader.  
 Finlay, T. M., M.A., D.Sc. (Palæont.) Lectr.  
 Craig, Robert, M.A., D.Sc. (Econ. Geol.) Lectr.  
 Cockburn, A., B.Sc., Ph.D. Asst.

*German and Teutonic Philol.*

Bruford, W. H., M.A. Camb. Prof.  
 Eggeling, H. F., M.A. Reader.  
 Barker, Marie L., Ph.D. Research Fellow and Lectr.  
 McIlvenna, Estelle G. C., M.A., Ph.D. Asst.  
 Reinhold, Henry, Ph.D. Asst.

*Hebrew and Semitic Langs.*

Porteous, Rev. N. W., M.A., B.D., D.Litt. Prof.  
 Cameron, Rev. D., D.D. Asst.

*Histology, v. Physiol.*

*History, v. also Comm., Div.*

Galbraith, V. H., C.G., M.A. Camb. Prof.  
 Balfour-Melville, E. W. M., M.A., D.Litt. Lectr.  
 Rothwell, H., B.A., Ph.D. Camb. (Medieval and Gen. European) Lectr.  
 Horn, D. B., M.A., D.Litt. Lectr.  
 Saunders, L. J., M.A. Lectr.

*History, Ancient (Gk. & Roman)*

Giles, A. F., M.A. Edin. and Ox. Reader.

*History, Ancient, and Palæog.*

Hannay, R. K., M.A. Glas. and Ox., LL.D. St. And. Prof.  
 Lemon, Miss E. B., M.A. Asst.

*History (Constitn. of the British Empire, etc.)*

Keith, Prof. A. B. Lectr.

*History, Const., and Const. Law*

Dykes, D. O., M.A., LL.B., K.C. Prof.  
 Walker, A. G., M.A., LL.B. Asst.

*Italian*

Purves, J., M.A. Lectr.

*Law, v. infra*

*Logic and Metaphysics, v. Philos.*

*Mathematics* [Prof.

Whittaker, E. T., M.A. Camb., LL.D. St. And., Sc.D. Dub.  
 Gibb, D., M.A., B.Sc. Reader.  
 Aitken, A. C., D.Sc. Reader.  
 Ince, E. L., M.A., D.Sc. Lectr.  
 Bath, F., B.Sc. Brist., Ph.D. Camb. Lectr.  
 Edge, W. L., B.A. Lectr.  
 Etherington, J. M. H., B.A., Ph.D. Lectr.

*Mathematics, Applied*

Schlapp, R., Ph.D. Camb. Lectr.

*Medicine and Surgery, v. infra*

*Mining*

McMillan, W. H., B.Sc. Glas., M.I.Min.E., F.I.F. Hood Prof.

*Music*

Tovey, Sir D. F., B.A., D.Mus. Ox., Mus.M. Birm. Reid Prof.  
 Shirlaw, M., Mus.Doc. Lectr.  
 Grierson, Mary, Mus.Doc. Lectr.  
 Sampson, Margaret, Mus.Bac. Asst.

*Natural History and Zoology*

Ritchie, James, M.A., D.Sc. Aberd. Prof.  
 O'Donoghue, C. H., D.Sc. Reader.

*Lecturers :*

Morgan, D. O., M.Sc., Ph.D. (Helminthology).  
 Friend, G. F., B.A.Ox., B.Sc. Brist. (Cytology and Exp. Zool.).  
 Gross, F., Ph.D. (Zool., Exp.).  
 . . . . . (Dip. in Trop. Vet. Med. Course).  
 Gresson, R. A. R., B.Sc., Ph.D. (Cytol.).  
 Gray, P., B.Sc., Ph.D. (Vert. Embryol.).  
 Stewart-Hay, R. K., M.Sc. Manlt. Asst.

- Palæontology*, v. Geol.  
*Petrology*, v. Geol.  
*Philology*, v. French, Ger., Sansk.  
*Philosophy* [Prof.  
 Smith, N. Kemp, M.A., Ph.D.,  
 LL.D. St. And., D. Litt. Durh.  
 Porteous, A. J. D., M.A. (Ancient  
 P.) Reader.  
 Sinclair, W. A., M.A. Lectr.  
 Drever, J., M.A. Asst.  
*Philosophy, Moral*, v. also Psych.  
 Taylor, A. E., M.A. Ox., D.Litt. St.  
 And., Manc., LL.D. Aberd.,  
 St. And. Prof.  
 Stout, A. K., M.A. Ox. Lectr.  
 Watt, W. M., M.A. Asst.  
*Philosophy, Natural*  
 Barkla, C. G., M.A. Camb., M.Sc.  
 Manc., D.Sc. Liv., LL.D.,  
 F.R.S., Nobel Laureate Prof.  
 Born, Max, M.A. Ox., Ph.D. Gött.  
 Tait Prof.  
 Carse, G. A., M.A., D.Sc. Reader.  
 Milne, J. R., D.Sc. Lectr.  
 Childs, C. B., Ph.D. Lectr.  
 Paton, J., M.A., B.Sc. Lectr.  
 Dymond, E. G., M.A. Camb.  
 (Physics) Lectr.  
 Schlapp, R., Ph.D. Lectr.  
 Murison, C. A., Ph.D. Lond., M.A.  
 Pt.-time Lectr.  
 Reekie, J., B.Sc. Asst.  
 Carmichael, W. A., M.A. Asst.  
 Cranfield, R. V. (Mechanical) Asst.  
 Wilson, Marion A. M., B.Sc. Asst.  
 Ross, Marion A. S., M.A. Asst.  
 Cowie, A., B.Sc. Asst.  
*Physiology*  
 Daly, I. de B., M.A. Camb., M.D.  
 Camb. and Birm. Prof.  
 Bruce, A. N., M.D., D.Sc., F.R.C.P.  
 (P. of Nervous System) Lectr.  
 Eggleton, P., D.Sc. Lond. Lectr.  
 Trowell, O. A., M.A., M.B. Camb.  
 Lectr.  
 Bayliss, L. E., B.A., Ph.D. Lectr.  
 Cameron, J. D. S., M.B., Ch.B.,  
 F.R.C.P. Lectr.  
 Brown, A., M.B. Asst.  
 Elsdon, S. R., B.A. Asst.  
 2 Technical Assts.  
*Pol. Econ.*, v. Comm., Hist.  
*Political Science*  
 Nobbs, D., M.A. Camb. Lectr.  
*Psychology* [Prof.  
 Drever, J., B.Sc. Lond., M.A., Ph.D.  
 Collins, Mary, M.A., B.Ed., Ph.D.  
 Lectr.  
 Sutherland, J. D., B.Ed., B.Sc.  
 Ph.D. Lectr.  
 Semeonoff, B., M.A., B.Ed. Asst.  
 Grant, Christina R., M.A., B.Ed.  
 Asst.  
*Rhetoric*, v. English  
*Sanskrit and Comp. Philol.*  
 Keith, A. Berriedale, B.A., D.C.L.  
 Ox., M.A., D.Litt. Reg. Prof.  
*Semitic Langs.*, v. Hebrew  
*Spanish* [Lectr.  
 Walton, L. B., M.A., B.Litt. Ox.  
 Symington, K., M.A. Asst.  
 Seddon, Margaret H., M.A. Asst.  
*Statistics*, v. Comm.  
*Theology*, v. Divinity  
*Zoology*, v. Nat. Hist.  
**Agriculture and Forestry**  
 (v. also Bot., Engin.)  
*Agriculture and Rural Economy*  
 Shearer, E., M.A., B.Sc. Prof.  
 More, J. A., B.Sc. Lectr.  
 Gordon, J. Evans, B.Sc., Ph.D.  
 Lectr.  
*Agricultural Bacteriology*  
 Gibson, Thomas, D.Sc. Lectr.  
*Agricultural Chemistry*  
 Smith, A. M., Ph.D., D.Sc. Lectr.

*Agric. and Forest Entomol.*

Cameron, A. E., M.A., D.Sc. Lectr.  
McHardy, J. W., B.Sc. Lectr.

*Animal Genetics*

[Prof.]

Crew, F. A. E., M.D., Ph.D., D.Sc.  
Greenwood, A. W., Ph.D., D.Sc.

Lectr.

Smith, A. D. B., M.A., B.Sc. Lectr.  
Koller, P. C., Ph.D. Lectr.

Blyth, Janet S. S., B.Sc., Ph.D.  
Asst.

Donald, H. P., B.Sc. Asst.

*Forestry*

Stebbing, E. P., M.A. Prof.  
Pike, J. L., M.A., B.Sc. Lectr.  
Fergusson, D. C., B.Sc. Lectr.

## Law

*Administrative Law*

Fisher, M. G., M.A., LL.B. Lectr.

*Civil Law*

Mackintosh, J., M.A. St. And.,  
B.A. Ox., LL.D., K.C. Prof.  
Thomson, G. R., B.A., LL.B. Asst.

*Constitutional Law*, v. Hist.*Conveyancing*

[Prof.]

Monteath, H. H., M.A., LL.B., W.S.  
Henry, G. L. F., B.L. Asst.

*English Law*

[Reader.]

Findlay, Sir C. S., M.A., LL.B.

*Evidence and Procedure*

Eaton, H. W., B.L., W.S. Lectr.

*Industrial Law*

Philip, J. R., M.A., LL.B. Lectr.

*International Private Law*

Garrett, Wm., B.A. Camb., LL.B.  
Camb. and Glas. Reader.

*Mercantile Law*, v. also Comm.

Lillie, J. A., M.A., LL.B., K.C.  
Lectr.

Shewan, H. A., M.A., LL.B.  
Aberd. Asst.

*Public Law*

[Reg. Prof.]

Wilson, Wm., M.A., LL.B.  
Eason, J. P., B.L., W.S. (Jurispr.)

Lectr.

Watson, T. P., B.A. Ox., LL.B.,  
W.S. Asst.

*Scots Law*

Henderson, R. C., M.A., LL.B.,  
K.C. Prof.

Guthrie, H. W., M.A., LL.B.  
Lectr.

## Medicine

(for subjects of the first 2 yrs.—  
Anat., etc., v. *supra*)

*Bacteriology*

Mackie, T. J., M.D. Glas.,  
M.R.C.P.E., D.P.H. Ox.

R. Irvine Prof.

## Lecturers :

Green, C. A., M.B., Ch.B., D.P.H.  
Lewis Cameron Lectr.

Thomson, Scott, M.B., Ch.B.  
Anderson, C. G., B.Sc., Ph.D.,  
Dip. Bact.

Rhodes, A. J., M.B., Ch.B.  
Oag, R. K., M.B., Ch.B. Asst.

*Child Life and Health*

[Prof.]

M'Neil, C., M.A., M.D., F.R.C.P.

## Lectrs. :

Murray, J. McN., M.B., Ch.B.  
Wilson, W. C., M.B., Ch.B.,  
F.R.C.S.E.

*Children, Diseases of*

Finlay, T. Y., M.D., F.R.C.P.E.  
Lectr.

Thatcher, L. H. F., M.D.,  
F.R.C.P.E. Lectr.

Hertzfeld, Gertrude, M.B., Ch.B.,  
F.R.C.S.E. Lectr.

Dott, N. McO., M.B., Ch.B.,  
F.R.C.S.E. Lectr.

MacGregor, Agnes R., M.B.,  
F.R.C.P.E. Lectr.

Murray, J. McN., M.B., Ch.B.  
Lectr.

- Wallace, H. L., M.B., Ch.B., F.R.C.P.E. Lectr.  
 Nicholson, D. N., M.B., Ch.B., F.R.C.P.E. Asst.  
 Henderson, J. L., M.B., Ch.B. Asst.  
 Dott, E. F., M.B., F.R.C.S.E. Asst.  
*Dental Diseases* [Lectr.  
 Jamieson, J. D. H., H.D.D., L.D.S.  
*Dermatology, Clinical, v. infra*  
 Clin. Teaching Staff  
*Eye, Diseases of the, v. infra*  
 Clin. Teaching Staff  
*Forensic Med.* [Reg. Prof.  
 Smith, S. A., M.D., D.P.H. Edin.  
 and Glas., F.R.C.P.E.  
 ..... Asst.  
*Gynaecology, Syst. and Clin., v. infra*  
 Clin. Teaching Staff  
*History of Med.*  
 Comrie, J. D., M.A., B.Sc., M.D., F.R.C.P.E. Lectr.  
*Infectious Diseases*  
 Joe, A., D.Sc., M.D., D.P.H. Lectr.  
*Laryng., Otol., and Rhinology, v. infra*  
 Clin. Teaching Staff  
*Materia Medica*  
 Clark, A. J., M.C., B.A., M.D. Camb., F.R.S., F.R.C.P. Prof.  
 Robson, J. M., M.B., Ch.B. Leeds, D.Sc., M.D. Lectr.  
 Percival, G. H., M.B., Ch.B., Ph.D., D.P.H. Ed. and Glas., M.R.C.P.E. Asst.  
 Croom, J. Halliday, M.B., Ch.B. Asst.  
 1 Tech. Asst.  
*Medicine, v. also infra* Clin. Teaching Staff  
 Ritchie, W. T., O.B.E., M.D., C.M., F.R.C.P.E. Prof.
- McCrie, J. G., M.B., Ch.B., F.R.C.P.E. Lectr.  
 Hamilton, J. G. M., M.B., Ch.B. Asst.  
*Medicine, Clinical, v. also infra*  
 Clin. Teaching Staff  
 Lyon, D. Murray, D.Sc., M.D., F.R.C.P.E., D.P.H. Ed. and Glas. Prof.  
 Lamb, W. L., M.B., Ch.B., F.R.C.P.E. Lectr.  
 Lyon, R. M. M., M.D., F.R.C.P.E. Lectr.  
 7 Clin. Tutors.  
*Mental Diseases, v. Psychiatry*  
*Midwifery and Diseases of Women, v. also infra* Clin. Teaching Staff  
 Johnstone, R. W., C.B.E., M.A., M.D., F.C.O.G., F.R.C.S.E. Prof.  
 3 Tutors, 1 Tech. Asst.  
*Neuro-Pathology*  
 Campbell, A. C. P., M.B., Ch.B. Lectr.  
*Orthopædics*  
 Cochrane, W. A., M.B., Ch.B., F.R.C.S.E. Lectr.  
*Pathology, v. also Anat.—Morb. and Bacteriol.*  
 Drennan, A. M., M.D., F.R.C.P.E. Prof.  
 Millar, W. G., M.B., Ch.B. Lectr.  
 Ogilvie, R. F., M.D. Lectr.  
 Cameron, J. R., M.B., Ch.B. Asst.  
 Macdonald, A. M., M.B., Ch.B. Asst.  
 MacGillivray, Miss I. M., M.B., Ch.B. Asst.  
*Psychiatry*  
 Henderson, D. K., M.D., F.R.F.P.S. Prof.  
 Bruce, A. N., D.Sc., M.D., F.R.C.P.E. Lectr.  
 Bailey, J. R., M.B., Ch.B. Lectr.

M'Innes, R. G., L.R.F.P.S. Glas.,  
M.R.C.P.E. Lectr.  
Ross, C. M., M.B., Ch.B. Lectr.

### *Public Health*

Lelean, P. S., C.B., C.M.G.,  
F.R.C.S., D.P.H. Lond. Prof.  
Langrishe, J. du P., D.S.O., M.B.,  
B.Ch. Dub., D.P.H. Lectr.  
Guy, J., M.D., F.R.F.P.S.,  
F.R.C.P.E., D.P.H. Camb.  
(M.O.H. for the city) (San.  
Admin.) Lectr.

### *Radiology and Electrical Therapeutics*

McWhurter, Robert, M.B., Ch.B.,  
F.R.C.S. Lectr.

### *Surgery, v. also infra Clin. Teaching Staff*

Wilkie, Sir David P. D., O.B.E.,  
M.D., Ch.M., F.R.C.S.,  
F.R.C.S.E. Prof.  
Fraser, Sir John, K.C.V.O., M.C.,  
M.D., Ch.M., F.R.C.S.E.  
(Clin. S.) Prof.  
7 Clin. Tutors.  
1 Tech. Asst.

### *Therapeutics, v. also infra Clin. Teaching Staff*

Dunlop, D. Melville, B.A. Ox.,  
M.D., M.R.C.P.E. Prof.  
..... Lectr.  
Arnott, W. Melville, B.Sc., M.D.  
Lectr.  
Hill, I. G. W., M.B., Ch.B.,  
F.R.C.P.E. Lectr.  
Scarborough, H., M.B. Asst.

### *Tropical Climates Diseases*

Greig, Lt.-Col. E. D. W., C.I.E.,  
I.M.S., D.Sc., M.D., C.M.,  
F.R.C.P.E. Lectr.

### *Tuberculosis*

Philip, Sir Robert W., LL.D.  
Glas. and Wales, M.A., M.D.,  
F.R.C.P.E., F.R.C.S.E. Prof.  
Dick, B. M., M.B., Ch.B. Asst.

Simpson, J. C., M.B., Ch.B.,  
D.P.H. Asst.

### *Venereal Diseases*

Batchelor, R. C. L., M.A., M.B.,  
Ch.B., F.R.C.S.E., D.P.H.  
Ed. and Glas. Lectr.  
Lees, R., M.B., Ch.B., F.R.C.P.E.  
Asst.  
Murrell, Marjory, M.B., B.S. Lond.,  
F.R.C.S.E., M.R.C.S. Eng.  
Asst.

### *Clinical Teaching Staff*

#### *Clinical Surgery*

#### *Surgeons-in-Ordinary:*

Chiene, G. L., M.B., C.M.,  
F.R.C.S.E.  
Stuart, W. J., M.A., M.B., Ch.B.,  
F.R.C.S.E.  
Struthers, J. W., M.B., Ch.B.,  
F.R.C.S.E.  
Wilkie, Prof. Sir D. P. D., v. Surg.  
Wade, Henry, C.M.G., D.S.O.,  
M.D., F.R.C.S.E., F.A.C.S.  
Fraser, Prof. Sir John, v. Surg.  
Graham, J. M., M.B., Ch.M.,  
F.R.C.S.E.  
Watson, A. Pirie, O.B.E., M.A.,  
M.B., Ch.M., F.R.C.S.E.

#### *Asst. Surgeons:*

Jardine, F. E., M.B., Ch.B.,  
F.R.C.S.E.  
Wood, W. Q., M.D., Ch.M.,  
F.R.C.S.E.  
Shaw, J. J. M., M.C., M.A., M.D.,  
F.R.C.S.E.  
Mercer, W., M.B., Ch.B.,  
F.R.C.S.E.  
Brown, K. Paterson, M.B., Ch.B.,  
F.R.C.S.E.  
Stewart, R. L., M.B., Ch.B.,  
F.R.C.S.E.  
Miller, T. M'W., M.B., Ch.B.,  
F.R.C.S.E.  
Middleton, D. S., M.B., Ch.B.,  
F.R.C.S.E.  
Adamson, W. A. D., M.B., Ch.B.,  
F.R.C.S.E.

Band, David, M.B., Ch.B.,  
F.R.C.S.E.

*Clinical Medicine*

Physicians-in-Ordinary :

Eason, John, M.D., Ch.M.,  
F.R.C.P.E.

Ritchie, W. T., O.B.E., M.D.,  
Ch.M., F.R.C.P.E.

Lyon, Prof. D. Murray.

Comrie, J. D., v. Hist. of M.

Goodall, Alex., M.D., F.R.C.P.E.

Hewat, A. Fergus, M.D.,  
F.R.C.P.E.

Small, W. D. D., M.D., F.R.C.P.E.

Alexander, W. A., M.B., Ch.B.,  
F.R.C.P.E.

Asst. Physicians :

Gilchrist, A. R., M.B., Ch.B.,  
F.R.C.P.E.

Todd, T. R. R., M.D., F.R.C.P.E.

Slater, J. K., M.B., Ch.B.,  
F.R.C.P.E.

Cameron, J. D. S., M.D., F.R.C.P.E.

McCrie, J. G., M.B., Ch.B.,  
F.R.C.P.E.

*Clinical Gynæcology*

Gynæcologists :

Johnstone, Prof. R. W., v. Midwif.

Haultain, W. F. T., O.B.E., M.C.,  
B.A., M.B., B.Ch. Camb.,  
M.R.C.P.E., F.R.C.S.E.

Miller, D. A., M.D., F.R.C.S.E.,  
F.R.C.P.E.

Asst. Gynæcologists :

Fahmy, E. C., M.B., F.R.C.S.E.

Sturrock, J., M.B., F.R.C.S.E.

Robertson, E. M., M.B., F.R.C.S.E.

Kennedy, C. D., M.B., F.R.C.S.E.

Dewar, J. B., M.B., F.R.C.S.E.

Thin, R. T., M.A., M.B., Ch.B.,  
F.R.C.S.E.

*Ophthalmology*

Surgeons :

Traquair, H. M., M.D., Ch.M.,  
F.R.C.S.E., D.P.H.

Cameron, E. H., M.B., Ch.B.,  
F.R.C.S.E.

Asst. Surgeons :

Graham, C. W., M.B., Ch.B.,  
F.R.C.S.E.

Paterson, J. R., M.B., Ch.B.,  
F.R.C.S.E.

*Ear, Nose, Throat*

Surgeons :

Hall, I. S., M.B., Ch.B., F.R.C.S.E.

Martin, G. E., M.A., M.B., Ch.B.,  
F.R.C.S.E.

Asst. Surgeons :

Stewart, J. P., M.D., F.R.C.S.E.

Smith, A. B., M.D., F.R.C.S.E.

*Diseases of the Skin*

Physician :

Aitken, R., M.D., F.R.C.P.E.

Asst. Physicians :

Percival, G. H., Ph.D., M.D.,  
F.R.C.P.E., D.P.H.

Peterkin, G. A. G., M.B., Ch.B.,  
M.R.C.P.E.

**Physical Education**

Director :

Campbell, Col. R. B., D.S.O., M.A.

**University Extension**

19 Tutors, including 6 Univ. Profs.  
and 11 Univ. Lectrs.

**Romanes Lecturer**

1938—.....

**Gifford Lecturer in Nat. Theol.**

1937-38—Sir Charles Sherrington,  
O.M., D.Sc., F.R.S.

1938-39, 1939-40—Prof. N. Nie-  
buhr, D.D. (Union Seminary,  
N.Y.).

**Sharpey Schafer Memorial  
Lecturer (Physiology)**

1939—.....

## CONSTITUENT COLLEGE

NEW COLLEGE (founded in 1846 by the Free Church of Scotland : from 1900 a Divinity Hall of the United Free Church of Scotland, and from 1929 of the reunited Church of Scotland in union with the Divinity Hall of the Church of Scotland as previously constituted by the University Faculty of Divinity), the seat of the Faculty of Divinity in the University as enlarged after 1929, owned and maintained by the Church of Scotland, and accommodating the ordinary and the post-graduate courses in Theology. Principal and permanent Dean of Faculty, Rev. Prof. W. A. Curtis, D.D., D.Litt., D.Théol. Secretary, Rev. Prof. Hugh Watt, D.D. *Staff* : The Univ. Professors, Reader, and Lecturers, as above. *Librarian* : Rev. A. Mitchell Hunter, D.Litt. (over 100,000 vols. in the collection). *Christian Sociology*, Rev. W. S. Tindal, M.A., Warden of New College Settlement. *Elocution*, Graeme Goring.

## AFFILIATED COLLEGES

HERIOT-WATT COLLEGE, Chambers St., Edinburgh. Founded as School of Arts, 1821 ; present title adopted 1885. Affiliated to the Univ. of Edinburgh, Feb. 7, 1933. Chairman of Governors, The Lord Provost of Edinburgh. Principal, J. C. Smail, O.B.E. The College provides instruction in Day and Evening Classes for those following or proposing to follow technical careers in Mech. Eng., Electr. Eng., Mining and Oil Mining, Applied Chem., Brewing, Pharmacy, Optics, Building, and Printing. Evening Courses are also provided in Commerce, Langs. and Music. Special courses arranged for research students and for others requiring particular instruction in Laboratory or Workshop Practice, etc. Diplomas and Associateships for full-time day study in Mech. Eng., Electr. Eng., Mining Eng., Oil Mining, Applied Chem., Brewing and Distilling. Mine Rescue Station available for instruction of day students. The Coll. is authorized by the Home Office to grant Certifis. to mine firemen, examns. being arranged at various centres in the area under control of the Coll., including the Lothians, Fife and Clackmannan.

Entrance examinations in Sept. Exemption granted to students who hold the Leaving Certif. of the Scottish Edn. Dept., or have passed the Scottish Univs. Prelim. Examns., or satisfy the Principal as to the adequacy of their general education.

Students holding a degree in Pure or Applied Sci. of a recognized Univ. may be admitted for special study for the Diplomas and Associateship.

Fees. Entrance examn., £1 : 1s., remitted on passing and joining the Coll. Admission direct to Second or Third Yr. Courses, 30s. or 60s. addnl. respectively. Matricn. fee for each session, £1 : 10s. for Dipl. Course students ; others, 10s.

*Staff* : *Chem.*, Prof. T. Slater Price, O.B.E., D.Sc., Ph.D., F.I.C., F.R.S. ; Sr. Lectr., J. Sandilands, F.I.C. ; 9 other Lectrs. *Eng., Electr.*, Prof. M. G. Say, Ph.D., M.Sc., A.R.C.S., D.I.C., M.I.E.E. ; Asst. Prof. E. N. Pink, B.Sc. ; 2 Lectrs. *Eng., Mech.*, Prof. A. R. Horne, O.B.E., B.Sc., M.I.M.E. ; Asst. Profs. H. H. Vaughan, B.Sc., M.I.M.E., R. S. Smillie, B.Sc. ; 6 Lectrs. *Eng., Mining*, Prof. W. H. McMillan, B.Sc., M.I.Min.E., F.I.F. ; 4 Lectrs. *Maths.*, 2 Lectrs. *Physics*, 4 Lectrs. *Building*, 1 Lectr. *Printing*, 4 Lectrs. 89 addnl. Lectrs. and Instrs.

ROYAL (DICK) VETERINARY COLLEGE, EDINBURGH. Founded 1823, incorporated 1906. Affiliated to the Univ. of Edinburgh 1933. A matricn. fee of 10s. 6d. and Athletic fee of 10s. payable at the beginning of each session. Class fees for all subjects, £26 : 5s., for each period of 3 terms. Facilities for post-graduate study (enquiries to be addressed to the Principal).



Principal and Prof. of Anat. and Histol., . . . . . Other Profs. : *Animal Pathol.*, J. R. Greig, Ph.D., M.R.C.V.S. ; *Chem. and Physics*, R. G. Thin, B.Sc., F.I.C. ; *Hyg. and Dietetics*, R. G. Linton, Ph.D., M.R.C.V.S. ; *Med. and Pharmacol.*, G. F. Boddie, B.Sc., M.R.C.V.S. ; *Pathol., Bacteriol., and Meat Inspection*, D. C. Matheson, F.R.C.V.S., D.V.S.M. ; *Physiol.*, H. Dryerre, Ph.D., M.R.C.S. Eng., L.R.C.P. Lond. ; *Surgery and Obstet.*, W. M. Mitchell, M.C., T.D., B.Sc., M.B., Ch.B., M.R.C.V.S. 8 Lectrs., 7 Assts., 1 Demr., 1 Consulting Radiologist, 4 Clin. Assts.

ASSOCIATED COLLEGE, in which Univ. courses are provided.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. III. p. 887. Principal and Prof. of Agric. and Rural Econ., Prof. E. Shearer, M.A., B.Sc. The Univ. staff and the following : Lectrs. : *Agric. and Rural Econ.*, J. A. More, B.Sc., J. E. Gordon, B.Sc., Ph.D., A. K. M. Meiklejohn, B.Sc. (Evng. Classes) ; *Agric. Engin. and Surveying*, L. M. Walker, B.Sc., H. R. Smith, N.D.A., Asst. Lectr. ; *Bacteriol.*, T. Gibson, D.Sc., Lucy E. Topping, B.Sc., Ph.D., Asst. Lectr. ; *Botany (Agric., Hortic. and Economic)*, E. W. Fenton, M.A., D.Sc., F. Earnshaw, B.A., Asst. Lectr. ; *Chem. and Agric. and Forest Chem.*, A. M. Smith, Ph.D., D.Sc., A.I.C., I. M. Robertson, B.Sc., Ph.D., J. M'Gillivray, C.D.A., A. Comrie, B.Sc., Ph.D., Asst. Lectrs. and Demrs., 1 Analyst ; *Horticulture*, J. S. Chisholm ; *Vet. Sci.*, Major E. D. S. Robertson, M.R.C.V.S. ; *Zool.*, P. F. Kendall, B.Sc. 9 Advisory and 30 Extension staff.

GENERAL INFORMATION, v. also pp. 341 ff.

Originally the "Town's College," founded in 1583 by the Town Council under general powers granted by Royal Charter, April 14, 1582. The Old College on the site of "Kirk o' Field," the scene of the murder of Lord Darnley, was designed by Robert Adam, and completed in 1838. Newer buildings include the Medical Buildings and the McEwan Hall (1888-97), which holds 2600 and has a great electric organ ; and "The King's Buildings" (commenced in 1920) for Chemistry and other Science Depts. The Medical School of this Univ. has been famous for many generations ; specially ample provision exists also for instruction and research in Theology (post-grad. school instituted 1919), Agric., For., Engin., Mining, and Vet. Sc. Edinburgh is the seat of the Scottish Supreme Courts of Law.

LIBRARY, founded in 1580, about 500,000 vols., 8000 MSS., includes special collections—Shakespearean (Halliwell-Phillipps), Persian and Arabic MSS., Economics (Hodgson), Math. tables by E. Sang, transactions of Engin. Societies in Great Britain and America, the Laing Charters (A.D. 854-1837), the Laing manuscripts, the Abercromby collection of 2500 vols. on archæology, ethnology, etc. ; the Blackie collection of modern Greek books, the Bruce collection of books on oceanographical subjects, the Cameron and Mackinnon collections of Celtic literature. MUSEUMS : Nat. Philos., Fine Art, Geol., Nat. Hist., Chem., Forestry, Agric., Entom. and Forest Zool. (Waterhouse collection of Coleoptera), Anat. (founded with the Monro collection in 1800 ; numerous specimens of Cetacea and human crania), Physiol., Mat. Med. (notable collections of medicinal and food substances, including those of Duncan and Christison), Forensic Med., Practice of Physic, Surg., Obst. (Simpson collection), Music and Musical Instruments. The Prof. of Botany is Regius Keeper of the *Royal Botanic Garden* ; the Prof. of Astronomy is Astronomer Royal for

Scotland and gives practical courses at the *Royal Observatory*. The LABORATORIES are especially well equipped for research in Anatomy, Anthropology, Bacteriology, Chemistry (the Labs. at King's Buildings, completed 1924, have accommodation for about 400 students), Zool., Mining, Engin. (notably Hydrs., Strength of Materials, Elec. Engin.), Mat. Med., Path., Physics, Physiol., Psych., Pub. Health. The Jane Findlay Thomson Commercial Laboratory facilitates the training of B.Com. students in practical business methods. The Univ. has a table at the Millport Marine Station. HOSPITALS: the Royal Infirmary adjoining the Univ. provides over 900 beds for clinical teaching, in addition to the Children's, Maternity, and Fever Hospls., the Royal Mental Hospl., the Royal Victoria Hospl. for Tuberculosis, and the Municipal Hospls. Over 50 resident posts in these are given annually to Med. graduates.

FACULTIES. (1) Arts, (2) Science (including Engineering, Mining, and Metallurgy, Technical Chemistry, Public Health, Agriculture, Forestry, and Veterinary Science, as well as Pure Science), (3) Divinity, (4) Law, (5) Medicine, (6) Music. Deans: (1) Prof. W. M. Calder (Greek), (2) Prof. Sir T. Hudson Beare (Engin.), (3) Prof. W. A. Curtis (Biblical Criticism), (4) Prof. J. Mackintosh (Roman Law), (5) Prof. Sydney Smith (Forensic Med.), (6) Prof. Sir D. F. Tovey (Music).

There are 6 Directors of Studies in the Faculty of Arts, 5 in the Faculty of Science, and 1 for those combining studies in the Faculties of Science and Medicine.

ADMISSION. See Appendix I.

DEGREES (v. also pp. 342 ff.).

A candidate for the B.Sc. in *Vet. Sc.* must (i.) have passed the Prelim. examn. for degrees in Sc., (ii.) have been engaged in Vet. study for 4 yrs., (iii.) have a registrable qualification, (iv.) have attended certain specified courses, including 1 yr. of study in this Univ. The Royal (Dick) Vet. Coll., Edin., provides certain of the qualifying courses.

Candidates for the *Mus.Bac.* must have passed the Prelim. Examn. or its equivalent, and attended a course in this Univ. during 3 winter sessions. A *Mus.Bac.* of 3 yrs.' standing may offer himself for the *Mus.Doc.* (which may also be conferred *honoris causa*) as Composer, as Executant, or as Theorist or Historian.

DIPLOMAS. Actuarial Mathematics, 2 yrs.—open to persons previously admitted as students of the Faculty of Actuaries.

Agricultural Science, 1 yr.—open to Hons. grads. in Sci. or Econ., or Ordinary grads. in Agric. of this or any other approved Univ.

Education—open to persons who have attended a course of Professional training or have had at least 3 yrs.' experience as a teacher, and have completed a graduation course in Arts or Sci. The diploma is granted on completion of Univ. courses (1 yr.) and passing examns. in Psych., Theory and Hist. of Edn., and modern Ednl. Systems and Problems.

English Language—open to grads. with Hons. in English who have specialized in Lit. in Final Hons. examn.

Psychiatry, Public Health, Radiology (each 1 yr.), Tropical Med. and Hygiene, Tropical Vet. Med. (each 6 months)—open to grads. in Med. of the Univ. and others holding corresponding degrees or registrable qualifications.

Social Study (1 yr.)—open to grads. of British or other approved Univs. with certain restrictions as to subjects taken for degree. A Certificate (2 yrs.) is granted to those whose education is equivalent to Univ. Entrance standard.

A Health Visitor's Certificate is also granted (6 months) to registered nurses,

who must hold the Central Midwives' Board certif. or sign an undertaking that they are willing to obtain this.

Technical Chemistry (1 yr.)—open to grads. of British or other approved Univs. who have taken a Science degree with Hons. in Chemistry.

POST-GRADUATE COURSES in Medicine are held during the Summer and Autumn Terms and the *Summer Vacation*. Particulars obtainable from the Hon. Sec., P.-G. Courses in Med., Univ. New Buildings, Edinburgh. The Post-graduate School of Theology issues a detailed list of courses. Graduates contemplating research should apply to the Deans.

SCHOLARSHIPS (v. also pp. 344-45). Total annual value over £30,000; for graduates only, £6000. Most are open to colonial and foreign students. The Earl of Moray's Endowment provides about £1100 p.a. for *research*.

*Travelling* for study or research is encouraged by Dickson Fund (£120 p.a.), Dundas Latin Studies Fund (£40 p.a.), Drummond Mathematical Scholarship (£140 p.a. for 2 yrs.), Maclaren Mathematical Scholarship (£200 for 2 yrs.), Scott Scholarship for Graduates in Arts (£77), M'Cosh Bursaries for Graduates in Medicine (£312), Lorimer Scholarship in Law (£170 for 1 yr.). V. also p. 839.

FEES (v. also Carnegie Trust, p. 345). Matriculation, 2½ gs. p.a. Inclusive tuition fees for M.A., Ord., 45 gs., Hons., 60 gs.; LL.B., 42 gs.; B.L., 30 gs.; B.Sc. Engin., 90 gs.; Agr., Ord., 90 gs., Hons., 120 gs.; Mining, 105 gs.; Forestry, 105 gs.; Technical Chemistry, 120 gs.; Pure Sc., 100 gs.; B.D., 39 gs.; M.B., Ch.B., including Hospl. Fees, 205 gs. Combined M.A. and B.Sc. in Pure Sci., 130 gs.; M.A. and B.Sc. in Agr. or Engin., M.A. and B.Com. or LL.B., 70 gs.; M.A. and B.L., 65 gs.; B.Sc. in Agr. and in For., 135 gs. Examination: M.A., 7½ gs.; B.D., 7½ gs.; LL.B., 9 gs.; B.L., 7½ gs.; Mus. Bac., 15 gs.; Mus. Doc., 15 gs.; Ph.D., 10 gs.; B.Sc., 9 gs.; D.Sc., 15 gs.; M.B., 33 gs.; M.D., 20 gs.; Ch.M., 20 gs.

HALLS OF RESIDENCE, ETC. For men: Cowan House, George Square (Warden: W. K. Smith, M.A.), accommodation for about 100 students, terms, £17: 10s. to £23 per term; University Hall on a self-governing basis (information from Messrs. Whitson and Methuen, 21 Rutland Street), board and lodging about £2 a week. For women: five hostels at Craigmillar Park, East Suffolk Rd. (Warden: Miss E. E. Looker, B.A.), £52: 10s. for the three terms; Masson Hall, 31 and 32 George Square (Warden: Miss J. M. Sergeaunt, M.A., B.Litt.); and Muir Hall, 12 George Square (Warden: Mrs. Cullum), £54 to £72 p.a. Six months' notice generally necessary.

APPOINTMENTS COMMITTEE. Secretary, Old College, The University.

GENERAL ADVISER OF WOMEN STUDENTS: Miss J. M. Sergeaunt, M.A., B.Litt., Old Quadrangle.

INDIAN STUDENTS' ADVISER: J. E. Mackenzie, D.Sc.

OVERSEAS STUDENTS' ADVISER: J. de Gruchy Gaudin, M.A.

There is a Franco-Scottish Society for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glas., Aberd., and Dundee.

EDINBURGH UNIV. CLUB OF LONDON. Secretaries: Dr. Bruce Williamson, 12 Wimpole St., W.1; Dr. A. Landale Clark, 42 Brook St., W.1.

UNIV. EXTENSION, ETC. There is an Adult Education Committee which arranges courses of lectures in the south-east of Scotland. The Univ. is now

represented on the Advisory Committees for the management of the Tutorial Classes for adults instituted by the Edin. Educational Authority, in co-operation with the Edinburgh W.E.A. Summer Classes (4 weeks) for Teachers are held during vacation, the lecturers being drawn mainly from the Univ. staff. Certificates gained at the courses qualify for endorsement on teachers' certificates.

OFFICIAL PUBLICATIONS. The *Calendar* (Sept.), 5s.; the *Prelim. and Degree Examn. Pprs.* (May and July), 5d. to 2s. a set (James Thin, 55 South Bridge). The *Students' Handbook* issued by the Students' Representative Council. *Facilities for advanced Study and Research* free on application.

HISTORIES OF THE UNIV.: Bower, Alexr., chiefly compiled from original papers and records, never before published, 3 vols., Edin., 1817-30; Dalzel, Andrew (ed. by D. Laing), with a Memoir of the Author (by C. Innes), 2 vols., Edin., 1862; Grant, Sir Alexr., *The Story of the Univ. during its first 300 years*, 2 vols., London, 1884; by various contributors, edited by Turner, A. Logan, 1883-1933, Edin., 1933.

## THE YEAR 1936-37

BENEFACTIONS. The late Sir James Barrie, Chancellor of the University, bequest of £5000. The late Mr. Harry Baxter of Leeds, bequest of the residue of his estate, amounting to about £2000. The late Dr. Alexander Darling of Edinburgh, bequest of £1000 for a Scholarship in connexion with the Chair of Organization of Industry and Commerce. The late Dr. George Bartholomew of Edinburgh, bequest of £500 towards the Chair of Geography. Subject to certain life rents, Dr. Charles Wilfred Coghlan of Nottingham bequeathed his estate, valued at about £20,000, to the Univ. Athletic Club. Lord Talbot de Malahide, endowment of a Scholarship of £100 p.a. in the dept. of Rhetoric and English Lit., in memory of his great-great-grandfather, James Boswell. Mrs. E. J. Musgrove, bequest of a portrait of Prof. J. W. Pettigrew, M.D. Edin., formerly Prof. of Anat. and Dean of the Fac. of Medicine at St. Andrews. Lord Finlay, a portrait of his father, the first Lord Finlay, Viscount of Nairn, G.C.M.G., P.C., K.C., LL.D. Edin. Sir Alexander Grant, gift of his portrait, for the Geology Dept. Dr. Edwin Bramwell, a collection of 3750 reprints of medical and scientific papers with index, and of lantern slides and Sir Byrom Bramwell's lecture diagrams.

NEW BUILDINGS. New Union and Gymnasium to be erected at King's Buildings, for the benefit of men and women students and staff in attendance there—£15,000 having been contributed by the University Grants Committee towards the cost.

RECENT DEVELOPMENTS. Conference held with Heads of Schools in the district on the work of the Appointments Committee. Superannuation Scheme for Technical Assistants established by University Court, with effect from Oct. 1, 1937. Course of forty lectures in Accounting instituted qualifying for graduation in law. A Common Room for men and women opened in the Old College. A Consultative Committee in connexion with the B.Sc. Degree in Mining instituted.

OTHER EVENTS. Jubilee of the Students' Representative Council celebrated and a memorial plaque unveiled to the memory of the late Mr. R. Fitzroy Bell, Founder of the Council.

The Women's Medical Congress granted accommodation for their meeting in July, 1937.

**VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES.** Prof. G. Barger (Medical Chemistry) invited to deliver Lectures at the Univ. of Brussels, and Prof. J. P. Kendall to deliver Lectures in the U.S.A.

**VISITING LECTURERS.** Gifford Lecturer for 1936-38—Sir Charles S. Sherrington, O.M., F.R.S., 10 lectures on "Biology and Natural Religion." Munro Lecturer—Prof. V. Gordon Childe (Abercromby Prof. of Prehistoric Archaeol.), 10 lectures on "The Functional Concept in Prehistory." Gunning Lecturer—Rev. Principal John Dickie, D.D. (Presb. Coll., Dunedin, N.Z.), 6 lectures on "Fifty Years of British Theology: a Personal Retrospect." Ritchie Fund Lectures: Prof. N. F. Mott, F.R.S. (Univ. of Bristol), "The Nature of the Photographic Latent Image"; Dr. J. D. Bernal (Univ. of Cambridge), (1) "Liquid Crystal Substances from Virus-infected Plants"; (2) "The States of Matter"; Prof. D. R. Hartree (Univ. of Manchester), "The Differential Analyzer and Some Applications." Prof. David Muzzey (Columbia Univ.) (by courtesy of the Carnegie Endowment for Internat. Peace), 3 lectures on American affairs. Prof. Baisetz T. Susuki (Buddhist College of Kyoto), "Zen Buddhism and its Influence in Japanese Culture." Prof. Li Chi (Academia Sinica), "Ancient China in the Light of Recent Archaeological Discoveries." Col. Theodore Roosevelt (U.S.A.), "American Colonial Policy." Prof. H. B. Charlton (Univ. of Manchester), "The Greek Tradition in Literary Criticism."

**EXTRA-MURAL WORK.** Classes conducted by the Edinburgh Workers' Educational Association, which meet in the University Buildings, had an enrolment of 465 men and 877 women—total, 1342. A University Extra-mural Committee organizes Courses of Lectures in the south-east area of Scotland. Classes were held in 21 centres attended by 732 students.

**DEATH.** Sir James M. Barrie, Chancellor of the University.

**RETIREMENTS.** Prof. A. R. S. Kennedy (Hebrew); Prof. R. A. Sampson (Astronomy); Prof. Basil Williams (History); Miss Margaret Drummond and Miss Jean K. Borland (Education); Miss Marjorie Rackshaw from the posts of Adviser of Women Students and Warden of Masson Hall.

**RESIGNATIONS.** Ian A. Gordon, M.A., on apptment. to Chair of English in Victoria Univ. Coll., Wellington, N.Z. G. T. Clapton, on apptment. to Chair of French, Univ. of Sheffield.

**HONORARY DEGREES.** D.D.—Rt. Rev. George Francis Graham Brown, O.B.E., Bishop in Jerusalem; Rev. Prof. John Kennedy Cameron, Free Church College, Edinburgh; Rev. George Moncur Fairweather, M.C., Minister of Broughton Place Church, Edinburgh; Rev. William Gladstone Orr, Missionary at Jaipur, India; Rev. Prof. John Mackintosh Shaw, Queen's Theological Coll., Kingston, Ontario; Rev. David Caldwell Stewart, Minister of Currie. LL.D.—H.M. Queen Elizabeth; Prof. Leo Hendrick Baekeland, Hon. Prof. of Chem. Engin., Columbia Univ., New York; Sir William Henry Bragg, O.M., K.B.E., P.R.S.; Nicholas Murray Butler, President of Columbia Univ., New York (*In absentia*); Thomas Stearns Eliot, Poet and Essayist; Prof. Emeritus Sir Herbert John Clifford Grierson, F.B.A., Rector of the Univ.; André Honnorat, Senator of France; Lady (Leslie) Mackenzie, C.B.E.; Alexander Morgan, O.B.E.; Very Rev. Prof. Emeritus William Paterson Paterson; Rt. Hon. Walter George Hepburne-Scott, Lord Polwarth, C.B.E., V.D.; Rt. Hon. Sir George Claus Rankin, P.C.

(July 1937) Edwin Bramwell, formerly Prof. of Clinical Med., and President of the Royal College of Physicians, Edinburgh.

STUDENTS. Full-time: 3213, including 135 graduates. Part-time. 554, including 113 graduates.

DEGREES. B.D., 10 (m.); M.A. (Ord.), 86 (m.), 106 (w.); M.A. (Hons.), 50 (m.), 41 (w.); B.Com., 10 (m.), 11 (w.); B.Ed., 5 (m.), 3 (w.); B.L., 32 (m.), 3 (w.); LL.B., 24 (m.), 2 (w.); B.Sc. Pure (Ord.), 2 (m.), 1 (w.), (Hons.), 22 (m.), 11 (w.); B.Sc. Engin. (Ord.), 13 (m.), (Hons.), 12 (m.); B.Sc. Agric. (Ord.), 9 (m.), (Hons.), 2 (m.); B.Sc. Forestry (Ord.), 7 (m.); B.Sc. Tech. Chem. (Ord.), 1 (m.), (Hons.), 3 (m.); B.Sc. Veterinary, 8 (m.); D.Sc., 1 (m.), 1 (w.); M.B., Ch.B., 165 (m.), 21 (w.); M.D., 25 (m.); Mus.Bac., 4 (m.), 1 (w.); Mus.Doc., 2 (m.); Ph.D. Arts, 10 (m.), 1 (w.); Ph.D. Science, 21 (m.), 4 (w.); Ph.D. Medicine, 1 (m.); Ph.D. Divinity, 17 (m.); D.Litt., 1 (m.).

DIPLOMAS. D.P.H., 13 (m.), 1 (w.); D.T.M. & H., 6 (m.); D. Psychol., 3 (m.); D. Radiol., 3 (m.); D.T.V.M., 1 (m.); Dipl. Educ., 38 (m.), 23 (w.); Dipl. Social Study, 7 (w.); Cert. Social Study, 14 (w.); Tech. Chem., 1 (m.); Agric. Sc., 2 (m.).

# UNIVERSITY OF GLASGOW

Founded 1451

CHANCELLOR—Sir DANIEL M. STEVENSON, Bt., LL.D., D.L.

VICE-CHANCELLOR AND PRINCIPAL—Sir HECTOR HETHERINGTON, LL.D.  
Glas. and Liv., M.A.

RECTOR—.....

DEAN OF FACULTIES—Emeritus Prof. F. O. BOWER, LL.D. Aberd.,  
Glas., Brist., Sc.D. Camb., D.Sc. Dub., Sydn., Leeds, F.R.S.

SECRETARY OF THE UNIV. COURT—J. S. MUIRHEAD, D.S.O., M.C., B.A.  
Ox., LL.B

CLERK OF SENATE—Prof. J. R. CURRIE, M.A. Ox. and Glas., M.D.,  
D.P.H.

REGISTRAR—ROBT. BROUGH, J.P.

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—W. R.  
CUNNINGHAM, M.A., LL.D.

CLERK OF THE GENERAL COUNCIL—D. M. HUTCHISON, LL.B.

Telephone : Glasgow, Western 3999.

## TEACHING STAFF

### *Accountancy*

Loudon, J., M.A., C.A.

(to 30.9.38) Prof.

McKellar, A., C.A.

(Prof. from 1.10.38) Asst.

### *Agriculture, v. infra* West of Scotland Coll. of Agr.

### *Anatomy*

Blair, D. MacCallum, D.Sc. Lond.,  
M.B., Ch.B. Reg. Prof.

Bacsich, P., M.D. (Embryology)  
Lectr.

Wyburn, G. M., M.B., Ch.B. Lectr.

Walls, E. W., M.B., Ch.B. Lectr.

Roberts, J. G., M.B., Ch.B. Asst.

Brown, D. B., M.B., Ch.B. Asst.

Lynch, J. B., M.B., Ch.B. Asst.

Arnott, G. M., M.B., Ch.B. Asst.

Aitken, J. T., M.B., Ch.B. Asst.

### *Arabic*

Robson, J., M.A. Lectr.

### *Astronomy*

Smart, W. M., M.A., D.Sc.,  
F.R.A.S. Reg. Prof.

### *Bio-Chemistry, v. Med.—Pathol.* *Bio-Chem.*

### *Botany*

Walton, J., M.A. Camb., D.Sc.  
Manc. Reg. Prof.

### Lecturers :

Williams, S., M.Sc. Manc., Ph.D.

Thomson, J., M.A., B.Sc., Ph.D.

Jones, S. G., D.Sc.

Case, Isobel M., M.A., B.Sc., Ph.D.

Bond, G., B.Sc., Ph.D.

Asprey, G. F., B.Sc. Lond., Ph.D.

Carnegie Teaching Fellow.

### *Celtic*

Watson, J. C., M.A. Edin. Lectr.

### *Chemistry, v. also Physiol. Chem.*

Barger, G., M.A., Sc.D. Camb.,

LL.D. Mich., D.Sc. Liv.,

F.R.S. Reg. Prof.

### Lecturers :

Knox, J., D.Sc. Aberd.

(Med. Students.).

Roberts, J., M.A.

Henderson, A., M.A., B.Sc.  
 Mair, J. A., B.Sc., Ph.D.  
     (Anal. Chem.).  
 Chisholm, D., B.Sc., Ph.D.  
     (Med. Students).  
 M'Culloch, W. P., B.Sc.  
 Gibson, D. T., M.Sc., Ph.D. Belf.,  
     D.Sc.  
 Blair, R. D., B.Sc., Ph.D.  
 Bell, J., Ph.D., D.Sc.

Carnegie Teaching Fellow.

Assistants:

Lewin, Christina T., B.Sc.  
 Murdoch, G. J., B.Sc., Ph.D.

*Chemistry, Organic*

Patterson, T. S., D.Sc. Lond. and  
 Glas., Ph.D. Heid.

Gardiner Prof.

Tucker, S. H., M.A. Ox., D.Sc.,  
 Ph.D. Lond. Lectr.

Buchanan, C., B.Sc., Ph.D. Lectr.

Stevens, T. S., B.Sc., D.Phil. Ox.,

Kent, Andrew, M.A., B.Sc., Ph.D.  
 Lectr.

Storrie, F. R., B.Sc., Ph.D. Asst.

Robertson, J., B.Sc. Asst.

M'Alpine, Irene M., B.Sc., Ph.D.  
 Asst.

Loudon, J. D., Ph.D., D.Sc. Asst.

*Chemistry, Physical*

Wright, Robert, D.Sc. Belf. Lectr.

Mitchell, Stothard T. R. S., D.Sc.,  
 Ph.D. Lectr.

Thomson, George, B.Sc., Ph.D.  
 Lectr.

*Classics : Greek*, v. also Philol.

Rennie, W., M.A. Edin. and  
 Camb., Litt.D. Liv., LL.D.  
 Edin. Prof.

Lecturers:

Gomme, A. W., B.A. Camb. (Gk.  
 Hist.).

Kitto, H. D. F., B.A. Camb.

Muir, W. E., B.A. Ox., M.A. Glas.

*Classics : Latin*, v. also Philol.

Fordyce, C. J., M.A. Glas. and Ox.  
 (Humanity) Prof.

Lecturers:

Nisbet, R. G., M.A. Glas. and Ox.

Pirie, J. W., M.A. Aberd. and Ox.

McGlynn, P., M.A., D.Litt.

Mackay, J. M., B.A. Ox., M.A.

Way, J. A. H., B.A. Ox. Asst.

*Divinity*, v. also Hebrew

Fulton, W., B.Sc., D.D.

Primar. Prof.

Macgregor, Rev. G. H. C., M.A.

St. And., B.D. Camb., D.D.

Edin., D.Litt.

(Bib. Crit.) Prof.

Main, A., B.A. Ox., M.A., D.Litt.,

D.D. (Church Hist.) Prof.

Riddell, J. G., M.A. Edin.

(Syst. Theol.) Prof.

Niven, W. D., D.D. Aberd.

(N.T. Lang. and Lit.) Prof.

*Economics*, v. Pol. & Social Econ.

*Education*

Boyd, W., M.A., B.Sc., D.Phil.

Lectr.

Inglis, W. B., M.A., Ed.B., Ph.D.

Lectr.

*Embryology*, v. Anat.

*Engineering*, v. *infra*

*English Language and Literature*

Alexander, P., M.A. Reg. Prof.

Lecturers:

Girvan, R., M.A. (Eng. Lang.).

Gray, Margaret M., M.A.

Wright, B. A., B.A. Ox.

Purser, J. W. R., B.A. Dub.

Livingstone, T. C., M.A. Asst.

Buchan, Hannah A., M.A., B.Litt.

Temp. Asst.

*French*

Boase, A. M., M.A. Ox., Ph.D.

Camb.

Prof.

Lecturers:

Ferguson, Marjorie M., M.A.

Silver, R. C., M.A., L. ès L.

Anderson, N. C., M.A.



Poisson, J. R., L. ès L.  
 Collas, J. P., B.A., B.Litt. Ox.  
 Gardner, W. N., M.A. Asst.  
 Classe, André, L. ès L. Paris Asst.  
 Combe, T. G. S., M.A. Asst.

### *Geography*

Stevens, A., M.A., B.Sc. Lectr.  
 Crowe, P. R., B.Sc. Lond. Lectr.  
 Huggins, K. H., B.Sc. Lond. Lectr.  
 Fairhurst, H., M.A. Liv. Asst.

### *Geology*

Trueman, A. E., D.Sc. Lond. Prof.  
 Tyrell, G. W., Ph.D., D.Sc., A.R.C.S. Lectr.  
 Neilson, Agnes T., M.A. Lectr.  
 Weir, J., M.A., Ph.D. Lectr.  
 Barrett, B. H., M.A., B.Sc. Lectr.  
 M'Callien, Wm. J., D.Sc. Lectr.  
 Currie, Ethel D., B.Sc., Ph.D. Lectr.  
 Leitch, D., B.Sc. Carnegie Teaching Fellow.  
 Flett, W. R., B.Sc. Asst.  
 Latham, Mary H., M.A. Asst.

### *German*

Smith, H., M.A. St. And., Ph.D. Marb. Wilham Jacks Prof.  
 Clark, James M., M.A., Ph.D. Lectr.  
 Bischoff, W. D., Ph.D. Asst.  
 Weir, Eleanor R., M.A. Asst.

### *Hebrew and Semitic Langs.*

Weir, Rev. C. J. M., B.D. Edin., D.Phil. Ox. Prof.  
 Mauchline, J., B.D. (O.T. Lang. and Lit.) Prof.  
 Atlas, D., M.A. Asst.

### *History, v. also Div., Law, Pol. Econ.*

Browning, A., M.A. Glas. and Ox., D.Litt. Prof.  
 Mackie, J. D., M.C., M.A. Ox. (Scottish H.) Prof.

### *Lecturers :*

Miller, S. N., M.A. (H. and Antiq., Roman).  
 Lees, R. M., M.A. (British H.).  
 Sayles, G. O., M.A., D.Litt.  
 Tweeddale, Mrs. Greta C., M.A.  
 Pryde, G. S., M.A., Ph.D. St. And. (Scottish H.).  
 Henderson, G. B., M.A., Ph.D. Camb.  
 Chrimes, S. B., M.A., Ph.D. Camb. (Const. H.).  
 Shaw, J. J. S., M.A., Ph.D. Asst.

### *Humanity, v. Classics*

*Italian* [Stevenson Prof.  
 Grillo, Cav. E., K.C.O.I., M.A., D.Lit. Flor., LL.D. Perugia  
 MacKinnon, A. D., M.A. Lectr.

### *Law, v. infra*

### *Logic and Rhetoric*

Campbell, C. A., M.A. Prof.  
*Lecturers :*  
 Brown, George, M.A. Edin.  
 Levett, Margaret J., M.A. Ox.  
 Haydock, G. H., M.A., B.Litt.  
 Cousin, D. R., B.A. Ox.

### *Mathematics* [Prof.

MacRobert, T. M., M.A., D.Sc.

### *Lecturers :*

M'Arthur, N., M.A., B.Sc.  
 M'Whan, J., M.A., Ph.D. (Eng. Students).  
 Arthur, W., M.A. (Eng. Students).  
 Robb, R. A., M.A., D.Sc.  
 Gillespie, R. P., Ph.D. Camb., M.A., B.Sc.  
 Graham, T. S., Ph.D. Camb., M.A.  
 Hyslop, J. M., Ph.D. Camb., M.A.  
 Smith, J. H., M.A. Asst.  
 Black, Margaret S., M.A. Asst.

### *Medicine and Surgery, v. infra*

*Metallurgy, etc., v. infra* Royal Tech. Coll.

*Mining*

Bryan, A. M., B.Sc. Dixon Prof.

*Music*

Whittaker, W. G., M.A., D.Mus.  
Durh., F.R.C.O.

(to 30.9.38) Gardiner Prof.

Thomson, R. H., B.Mus. Edin.  
Asst.

*Naval Archit., including Marine  
Engin.*, v. also *infra* Royal  
Tech. Coll.

Hillhouse, P. A., D.Sc.  
John Elder Prof.  
Evans, D. L., B.Sc. Lectr.

*Philology, Comp. (Classical)*

Pirie, J. W., M.A. Aberd. and Ox.  
Lectr.

*Philosophy, Moral*, v. also Logic  
and Psychol.

Franks, O. S., M.A. Ox. Prof.  
Phillips, I. W., M.A. Lectr.  
Lamont, W. D., D.Phil. Ox., M.A.  
Lectr.  
Dickie, J. S., M.A., B.Sc. Lectr.  
Kerr, Sheila A., B.Litt. Ox., M.A.  
Asst.

*Philosophy, Natural*

Jones, E. Taylor, D.Sc. Lond. Prof.  
Houstoun, R. A., D.Sc., Ph.D.  
(Physical Optics) Lectr.  
Cochrane, Charles, M.A., B.Sc.  
Lectr.  
Thomson, J., M.A., D.Sc., Ph.D.  
Lectr.  
M'Farlane, W., M.A., B.Sc. Lectr.

*Physics, Applied*

Alty, T., D.Sc. Liv., Ph.D. Camb.,  
F.I.P. Cargill Prof.  
Allan, G. E., D.Sc. Birm.  
Arnott and Thomson  
Demr. in Expl. Physics  
and Lectr. in Elec.  
Green, G., M.A., D.Sc. Lectr.  
Gray, R. C., M.A., D.Sc. Lectr.  
Younger, A. J., M.A., B.Sc. Lectr.

*Physiology*

Cathcart, E. P., C.B.E., LL.D.  
St. And., D.Sc., M.D., F.R.S.  
Reg. Prof.

Watson, A. M., M.A., Ph.D. (His-  
tology) Lectr.

Cuthbertson, D. P., D.Sc., M.D.  
Grieve Lectr.

Bell, G. H., B.Sc., M.B., Ch.B.  
Lectr. & Demr.

Wright, N. C., M.A., D.Sc. Ox.,  
Ph.D. Camb. (Domesticated  
Animals) Hon. Lectr.

Knox, J. A. C., M.B., Ch.B. Asst.

*Physiological Chem.*

Wishart, G. M., B.Sc., M.D.  
Gardiner Prof.  
McGirr, J. L., B.Sc. Asst.

*Political Economy*

Scott, W. R., M.A., Litt.D. Dub.,  
LL.D., D.Phil. St. And.,  
F.B.A. Prof.  
Buyers, J. A., M.A.  
(Econ. Hist.) Lectr.  
Macfie, A. L., LL.B. Lectr.  
Cairncross, A. K., M.A., Ph.D.  
Lectr.

*Political Philosophy*

White, Alex. K., M.A. Lectr.

*Psychology*

Thouless, R. H., M.A., Ph.D.  
Camb. Lectr.  
Pickford, R. W., M.A., Ph.D.  
Camb. Lectr.

*Psychology, Industrial*

Oakley, C. A., B.Sc., Ed.B. Lectr.

*Russian*

Brennan, H. G., M.A. Lond.  
Sir William Weir Lectr.

*Social Economics*

Cunnison, James, M.A. Lectr.

*Spanish*

Atkinson, W. C., M.A. Belf.  
Stevenson Prof.

Anderson, J. A., M.A.	Lectr.	Scobie, J., B.Sc.	Lectr.
M'Clelland, Ivy L., M.A.	Asst.	Small, A. J., B.Sc., Ph.D.	Lectr.
Luzuriaga y Medina, L.	Asst.		

*Theology*, v. Divinity*Zoology*

Hindle, E., M.A. Camb., Sc.D., Ph.D.	Reg. Prof.
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Jepps, Margaret W., M.A. Camb.	Lectr.
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Staig, R. A., M.A., Ph.D.	Lectr.
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Parsons, C. W., B.A. Camb.	Lectr.
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Miller, Agnes E., M.A.	Lectr.
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Cott, Hugh B., M.A. Camb., D.Sc.	Carnegie Teaching Fellow.
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## Assts. :

Bertram, D. S., B.Sc.	
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Kerrich, G. J., M.A. Camb.	
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Slack, H. D., B.Sc. Lond.	
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**Engineering**

## v. also Naval Archit., Mining

Goudie, W. J., D.Sc.	
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(Theory and Practice of  
Heat Engines)

(to 30.9.38) J. Watt Prof.

Small, J., D.Sc., Ph.D.	Lectr.
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Geyer, E. W., B.Sc., Ph.D.	Carnegie Teaching Fellow.
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*Engin., Civil and Mech.*

Cook, Gilbert, D.Sc. Manc., M.I.Mech.E.	Reg. Prof.
--	------------

Brown, R. M., D.Sc., Ph.D., M.I.M.E.	Lectr.
---	--------

Keown, J. E., B.Sc. (Drawing and Design)	Lectr.
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Morrison, J. C., B.Sc., Ph.D.	Lectr.
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M'Gregor, W., B.Sc.	Lectr.
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Thom, A., D.Sc., Ph.D.	Lectr.
------------------------	--------

Orr, J., B.Sc., Ph.D.	Lectr.
-----------------------	--------

McDonald, G. G., B.Sc.	Carnegie Teaching Fellow.
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*Engineering, Electrical*

Howe, G. W. O., D.Sc. Durh. and Adel.	J. Watt Prof.
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Hague, B., D.Sc. Lond., Ph.D.	Lectr.
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**Law**

Gibb, A. D., LL.B.	Reg. Prof.
Paton, G. C. H., LL.B.	Asst.

*Civil Law* [Lectr.]

Muirhead, J. S., B.A. Ox., LL.B.	
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*Const. Law and Hist.*

Fraser, W. I. R., B.A. Ox., LL.B.	Lectr.
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*Conveyancing*

Girvan, J., LL.B.	Prof.
Kay, A., LL.B.	Asst.

*Evidence and Procedure*

M'Leish, D. A. S., LL.B.	Lectr.
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*Internat. Law, Public, and In-  
ternat. Private Law*

Nicol, R. M., LL.B.	Lectr.
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*Jurisprudence, Genl.*

M'Intosh, H., LL.B.	Lectr.
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*Mercantile Law*

Henderson, J. J. C., B.L.	Prof.
Boyd, J., LL.B.	Asst.

**Medicine**(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)*Bacteriology*

Browning, C. H., LL.D. St. And., M.D., D.P.H., F.R.S.	
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Gardiner Prof.

Kyles, W. B., M.B., Ch.B.	Lectr.
Howie, J. W., M.B., Ch.B. Aberd.	Asst.

Stuart, R. D., M.D. Aberd., D.P.H.	(Roy. Inf.) Lectr.
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*Dermatology*

McLachlan, A. D., M.D.	
M'Call Anderson Mem.	Lectr.

Smith, J. Ferguson, M.A., M.D.  
Lectr.

*Ear and Throat and Nose,  
Diseases of*

Young, G., M.C., M.B., Ch.B.,  
F.R.F.P.S. Glas. Lectr.

Harper, J., M.A., M.B., Ch.B.,  
F.R.F.P.S. Glas. Lectr.

Syme, W. S., M.C., M.B., Ch.B.,  
F.R.F.P.S. Glas. Asst.

Christie, J. F., M.B., Ch.B.  
Private Asst.

*Eye, Diseases of the*

Ballantyne, A. J., M.D., F.R.F.P.S.  
Glas. Tennent Prof.

Marshall, J., M.B., Ch.B. Asst.

Michaelson, I. C., F.R.F.P.S. Glas.  
Asst.

*Forensic Medicine*

Glaister, J., D.Sc., M.D. Reg. Prof.

Martin, F. W., M.D. Asst.

*Infancy and Childhood, Dis. of*

Fleming, G. B., M.B.E., B.A., M.D.  
Camb., F.R.F.P.S. Glas. (Med.  
Pediatrics)

Samson Gemmell Prof.

Ford, F. J., M.D., Ch.B. Asst.

Graham, S. G., M.D. Tor.,  
F.R.F.P.S. Glas. Gow Lectr.

MacLennan, A., M.B., C.M. (Surg.  
and Orthop.) Lectr.

Macfarlane, W. D., M.B., Ch.B.,  
F.R.F.P.S. Glas. Private Asst.

*Materia Medica, v. also Med.,  
Clin.*

Morris, N., D.Sc., M.D., D.P.H.  
Reg. Prof.

Alstead, S., M.D. Liv. Pollok Lectr.

Wilson, A., Ph.D. Weir Asst.

Hunter, J. K., M.B., Ch.B. Asst.

Macdonald, J. B., M.B. Asst.

*Medical Radiology*

Fulton, J. S., M.D. Ed.,  
M.R.C.P.E., D.R. Lectr.

MacLean, A. B., M.D. Lectr.  
Crawford, R. M. C., M.D. St. And.,  
D.M.R.E. Camb.

Private Asst.  
Fleming, J. A. C., M.B., Ch.B.

Private Asst.

*Medicine*

Harrington, A. W., M.D.,  
F.R.F.P.S. Glas.

Muirhead Prof.

Wright, J. H., M.D. Asst.

Stevenson, E. Moira K., M.B.,  
Ch.B. Asst.

Aitkenhead, Anne C., B.Sc., M.B.,  
Ch.B. Asst.

*Medicine, Clinical*

*Lecturers :*

Middleton, J. C., M.A., B.Sc., M.B.,  
Ch.B., F.R.F.P.S. Glas.

(also Waltonian Lectr.  
in *Mat. Med.*).

Crawford, A. Muir, M.D.,  
F.R.F.P.S. Glas.

Cruickshank, J. N., M.C., D.Sc.,  
M.D., F.R.F.P.S. Glas.,  
F.R.C.P.

Gracie, John, M.B., Ch.B.,  
F.R.F.P.S. Glas.

Allan, G. A., M.D., M.R.C.P.,  
F.R.F.P.S. Glas.

McKenzie, Ivy, B.Sc., M.A., M.D.,  
F.R.F.P.S. Glas.

Mavor, O. H., M.D., F.R.F.P.S.  
Glas.

Morton, H., M.D.

Smith, David, M.D., F.R.F.P.S.  
Glas.

*Medicine, Practice of*

McNee, J. W., D.S.O., D.Sc.,  
M.D., F.R.C.P. Reg. Prof.

Rennie, J. B., M.D.  
Carnegie Teaching Fellow.

*Assistants :*

M'Cluskie, J. A. W., M.B., Ch.B.  
Lendrum, R. G., M.A., M.B., Ch.B.  
Scott, L. D. W., M.B., Ch.B.

*Midwifery*

- Cameron, S. J., M.B., Ch.B.,  
F.R.F.P.S. Glas., F.C.O.G.  
Reg. Prof.  
Barr, A., M.B., Ch.B. Asst.  
Armstrong, W. C., M.B., Ch.B. Asst.

*Obstetrics and Gynæcology*

- Hendry, J., M.B.E., M.A., B.Sc.,  
M.B., Ch.B., F.R.F.P.S. Glas.  
Muirhead Prof.  
Hewitt, J., M.B., Ch.B. (Clin. G.)  
Lectr.  
M'Intyre, D., M.B.E., M.D.,  
F.R.C.S.E., F.R.F.P.S. Glas.  
"Samaritan" Lectr.  
Anderson, D. F., M.D. Asst.  
Hunter, Alison M., M.B., Ch.B.  
Asst.

*Pathology*

- Dunn, J. Shaw, M.A., M.D. Prof.  
Reynolds, F. E., M.D. Edin.,  
M.R.C.P.E., D.T.M. & H.  
Camb. Hon. Lectr.  
Heggie, J. F., B.Sc., M.B., Ch.B.  
Lectr.  
Niven, Janet S. F., M.D. Lectr.  
Lendrum, A. C., M.A., B.Sc., M.B.,  
Ch.B. Asst.  
Blacklock, J. W. S., M.D.,  
F.R.F.P.S. Glas.  
St. Mungo-Notman Prof.  
Marshall, Alice J., M.B., Ch.B. Lectr.  
Lyall, A., M.B., Ch.B. Asst.

*Pathology of Diseases of Infancy  
and Childhood*

- Montgomery, G. L., Ph.D. St  
And., M.B., Ch.B.  
Gardiner Lectr.

*Pathological Bio-Chemistry**Lecturers :*

- Telfer, S. V., B.Sc., M.B., Ch.B.  
Anderson, A. B., B.Sc., Ph.D.  
Lond., M.R.C.S.  
Wilson, H. E. C., D.Sc., M.B.,  
Ch.B.

*Pediatrics, v. Infancy**Psychiatry (Mental Diseases)*

- MacNiven, Angus, M.B., Ch.B.,  
D.P.M., M.R.C.P.E. Lectr.  
MacDonald, J. H., M.B., Ch.B.,  
F.R.F.P.S. Glas. (Psych. Med.)  
Mackintosh Lectr.

*Psychological M., v. Psychiatry**Public Health*

- Currie, J. R., M.A. Edin. and Ox.,  
M.D. Glas., D.P.H. Birm. Prof.  
Macgregor, A. S. M., O.B.E., M.D.,  
F.R.F.P.S. Glas., D.P.H.  
Camb. (Hyg.) Hon. Lectr.  
Mearns, A. G., B.Sc., M.D.,  
D.P.H. Lectr.  
Mitchell, Mabel E., B.Sc., M.B.,  
B.L. Asst.

*Surgery*

- Young, Archibald, B.Sc., M.B.,  
C.M., F.R.F.P.S. Glas.  
Reg. Prof.  
Mackey, W. A., M.B., Ch.B. Asst.  
Orr, J. Leslie, M.B., Ch.B. Asst.  
Robertson, J. G. M'G., M.B.,  
Ch.B. Asst.  
Burton, J. A. G., M.B., Ch.B.,  
D.P.H., F.R.C.S.E.  
St. Mungo Prof.  
Patrick, W., M.B., Ch.B.,  
F.R.C.S.E. St. Mungo Asst.  
Stevenson, G. H., M.B., Ch.B.,  
F.R.C.S.E. Asst.

*Surgery, Clinical**Lecturers :*

- Macewen, J. A. C., B.Sc., M.B.,  
C.M., F.R.F.P.S. Glas.  
Young, Roy F., M.C., B.A., M.B.,  
B.Ch. Camb., F.R.F.P.S. Glas.  
McIntyre, Milne, M.B., Ch.B.,  
F.R.F.P.S. Glas.  
Renton, J. M., M.B., Ch.B.,  
F.R.C.S.E.  
Duff, D., F.R.C.S.E., F.R.F.P.S.  
Glas.  
Taylor, M. L., M.B., Ch.B.  
Campbell, W. A., M.B., Ch.B.,  
F.R.C.S.

White, M., M.A., M.B., Ch.B.,  
F.R.C.S.E., F.R.F.P.S. Glas.  
Davidson, N. G. W., O.B.E.,  
F.R.C.S.E.

Sewell, W. A., B.Sc., M.B., Ch.B.,  
F.R.F.P.S. Glas.

Dunbar, J., M.B., Ch.B.

Russell, J., M.B., Ch.B., F.R.C.S.E.,  
F.R.F.P.S. Glas.

Hutton, A. J., M.B., Ch.B.

Swanson, G. C., M.B., Ch.B.

*Tuberculosis, Clinical*

Wilson, J. A., M.B., Ch.B. Lectr.

*Venereal Diseases*

Watson, D., M.B., C.M. Lectr.

**Gifford Lecturer in Nat. Theol.**

1937—Prof. W. E. Hocking, LL.D.

**Alexander Robertson Lecturer** (De-  
fence of the Christian Re-  
ligion—not oftener than once  
in every 2 yrs.)

1937—Prof. E. Brunner.

**Hastie Lecturer** (Encouragement  
of Theology—held for 3 yrs.)

1934—Rev. G. S. Hendry, B.D.

**Stevenson Lecturer** (Citizenship)

1937—A. D. K. Owen, B.A.,  
M.Comm.

**Cramb Music Lecturer**

1937—Rev. Canon E. H. Fellowes,  
M.V.O., M.A., Mus.Doc.

**Sir William MacEwen Memorial  
Lecturer** (biennial)

1937—Prof. F. Sauerbruch.

**Gibson Lecturer** (History of  
Mathematics)

.....

**David Murray Lecturer**

1938—A. E. Stamp, C.B., M.A.

**Dalrymple Lecturer**

1938—R. A. Smith, B.A.

**Frazer Lecturer** (Social Anthro-  
pology—in rotation with Cam-  
bridge, Liverpool, Oxford)

1938—(at Oxford).

**University Extension**

Joint Secy. for the Univ. to the  
Glasgow Univ. Extra-mural  
Education Committee :  
Stewart, D. M., C.I.E., M.A.  
LL.D.

**ASSOCIATED COLLEGES**, in which University courses are  
provided at Glasgow.

**THE ROYAL TECHNICAL COLLEGE, v. *infra*.**

**THE WEST OF SCOTLAND COLLEGE OF AGRICULTURE**, v. also App. III. p. 887.  
Principal, W. G. R. Paterson, B.Sc., N.D.A. Profs. and Lectrs. : *Agric.*, The  
Principal, Prof. ; J. Kirkwood, B.Sc., N.D.A., N.D.D., C.D.A. ; A. F. R. Nisbet,  
M.A., B.Sc., Ph.D., N.D.A., N.D.D., 1 Asst. ; *Agr. Book-keeping*, J. Kirkwood ;  
*Agr. Econ.*, A. K. Cairncross, M.A., Ph.D. ; *Agr. Eng. and Surveying*, J. Malcolm,  
B.Sc., A.R.T.C., N.D.A. ; *Agr. Law*, C. Williamson, LL.B. ; *Agr. Zool.*, Prof.  
L. A. L. King, M.A. Camb., 1 Asst. ; *Bacteriol.*, J. F. Malcolm, M.Sc., Ph.D.  
Lond., F.A.C. Glas., N.D.A., N.D.D., 3 Assts. (2 Clean Milk) ; *Bees and Bee-  
keeping*, J. Tinsley, F.R.E.S., 2 Asst. Lectrs. ; *Bot.*, Prof. K. W. Braid,  
M.A. Camb., B.Sc. Aberd., W. F. Burnett, M.A., B.Sc., 1 Asst. ; *Chem.*, Prof.  
D. N. M'Arthur, D.Sc., Ph.D., F.I.C., E. M. Melville, M.A., B.Sc., B.Sc. (Agr.),  
N.D.A., A.I.C., 1 Asst. Lectr., 1 Asst., 1 Analyst, *Soil Chemist*, C. L. Whittles,

M.A., Ph.D. Camb. ; *Dairying*, Prof. R. H. Leitch, M.A., D.Sc., B.Sc. (Agr.), N.D.A., N.D.D., D. M. Smillie, B.Sc., N.D.A., N.D.D. ; *Dairy School*, Director, J. Kirkwood, 3 Assts. ; *Geol.*, M. M. Monie, M.A., B.Sc. ; *Hortic.*, D. V. Howells, Agr. Dip. (U.C.W.), (Supt.), W. Good, B. P. Perry, N.D.H., A. E. Livingston, A. J. A. Copeland, C.D.H., D. Anderson, 1 Asst. ; *Plant Husbandry*, D. G. O'Brien, M.A., B.Sc., B.Sc. (Agr.), Ph.D., N.D.A., N.D.D. ; *Poultry School*, Instructress, Agnes Kinross, N.D.D., 2 Assts. ; *Vet. Sci.*, Prof. J. R. McCall, M.R.C.V.S. (Lectr.). 8 Advisory and 28 Extension staff.

## GENERAL INFORMATION, v. also pp. 341 ff.

Founded by a Papal Bull in 1451, after the model of Bologna, the Univ. was reconstituted by a Charter of King James VI. of Scotland in 1577. For early history see *Yearbook*, 1929.

The LIBRARY, founded in the 15th century, contains 255,000 vols., including 300 books printed before A.D. 1500. Among its important collections are the Ewing, distinguished for the value and variety of its Bibles ; the Hamilton, rich in philosophical works ; and the Ferguson, containing rare books on the history of chemistry. The HUNTERIAN MUSEUM, founded in 1783, contains most valuable MSS. and early printed books and pictures and important collections of coins, anatomical preparations, zoological and mineral specimens, etc. Large new departments with spacious LABORATORIES have been erected for Engin., Bot., Nat. Philos., Chem., Physiol., Anat., Path., Mat. Med., Forensic Med., Pub. Health, and Zoology. There are BOTANICAL GARDENS and an OBSERVATORY. As Glasgow stands at the centre of the shipbuilding, engineering, mining, and industrial area of Scotland, it offers unique opportunities for technical training. Three large general HOSPITALS are available for clinics, besides special institutions (including Consumption Sanatoria).

FACULTIES. (1) Arts, (2) Science, (3) Medicine, (4) Law, (5) Divinity, (6) Engineering. Depts. of Applied Science—Engineering (Civ., Elec., Mech. Mining, Naval Archit., Chem.), Applied Chem., Agric., Architecture, Public Health, Pharmacy. Deans : (1) Profs. J. D. Mackie (Scot. Hist.), (2) J. Walton (Bot.), (3) C. H. Browning (Bacteriol.), (4) A. D. Gibb (Law), (5) Rev. G. H. C. Macgregor (Biblical Crit.), (6) W. J. Goudie (Heat Engines).

### ADMISSION, v. Appendix I.

DEGREES, ETC., v. pp. 342 ff. Applications by Overseas students for remission of part of the class attendance for B.Sc. in branches other than Engineering will be considered sympathetically. *Diploma* in Education, 1 yr. course, for graduates (the first yr. of the Ed.B. course) ; D.P.H. (1 yr. course) for legally qualified med. practitioners. *Certificates* of Proficiency in Engineering Science and in Mining Engin., 3 yrs.' courses, of which first yr. may be taken in Roy. Tech. Coll. ; no prelim. examn.

The list of extra-academical teachers whose courses in certain subjects are recognized as qualifying *pro tanto* for graduation includes several residents outside the United Kingdom, namely, in Cape Town (in Nat. Philos., Chem., Bot., Zool.), Grahamstown (Physics, Chem., Bot., Zool.), Johannesburg (Zool. and Chem.), and Stellenbosch (Bot., Chem., Physics).

For detailed information regarding POST-GRADUATE study and research in any Faculty application should be made to the Dean. A Post-graduate Medical Assocn. organizes demonstrations for Med. Practitioners ; fee for series, Nov. to May, 3 gs. ; programme obtainable from the Secy., P.-G. Med. Assocn., Dr. James Carslaw, 9 Woodside Terrace, Glasgow, C.3.

**FEES** (v. also Carnegie Trust, p. 345). Matriculation,  $2\frac{1}{2}$  gs. p.a. Inclusive tuition fees for M.A. (Ord.), 45 gs., (Hons.), 60 gs.; LL.B., 40 gs.; B.L., 30 gs.; B.Sc. (Pure or Applied Science), 90 gs.; M.B., Ch.B., about £250 for 5 yrs. Combined M.A. and B.Sc.,  $112\frac{1}{2}$  gs. Examination: M.A.,  $7\frac{1}{2}$  gs.; B.D.,  $7\frac{1}{2}$  gs.; LL.B., 9 gs.; B.L.,  $7\frac{1}{2}$  gs.; B.Sc., 9 gs.; M.B., Ch.B., 33 gs.; Doctorates, 10 to 20 gs.

**SCHOLARSHIPS.** Graduates (v. also pp. 344-45): about 76 of from £30 to £280 p.a., most of them open only to graduates of Glas. There are also 5 Foundations for res. scholarships and studentships.

For undergraduates there are 480, varying in value from £10 to £50 or more p.a., chiefly in the Faculty of Arts, in addition to Bursaries of from £5 to £25, awarded by the Provincial Committee for the training of teachers.

**Travelling** for study or research is encouraged by: Bryce Mathematical Fellowship (£280 p.a. for 4 yrs.), Faulds Fellowship (£200), J. R. K. Law Scholarship (£100 p.a. for 2 yrs.) for Applied Science tenable at an approved *Overseas University* or other scientific institution in *Canada, U.S.A., or France.*

**RESIDENCE.** Two Halls of Residence for men—the MacLay Hall (Warden: F. M. Urquhart, LL.B.) and the MacBrayne Hall (Warden: J. C. Watson, M.A.); and one for women—Queen Margaret Hall (Warden: Miss M. B. Kirkpatrick) with Robertson Annexe. The average cost of residence in the Halls is £17:10s. per term, with a reduction for those resident for three terms. Lodgings or board with private families with use of 2 rooms, generally obtainable in neighbourhood of the Univ., for from 35s. to 50s. per week. A few students' hostels or settlements, of limited accommodation, where the charges are lower, are run by private committees or bodies of students and graduates.

**THE APPOINTMENTS COMMITTEE** (for men and women). Secretary (J. Thomson, M.A., B.Sc., Ph.D.), Office of Adviser of Studies, The University.

**LOCAL ADVISER TO INDIAN STUDENTS.** R. M. Brown, D.Sc., Ph.D., M.I.M.E.

**SOCIETIES.** Glasgow Univ. Club, London. Hon. Secs.—J. McClure, M.D., F.R.C.S., 62 Harley House, London, N.W.1; H. L. P. Myles, LL.B., 27 Abingdon St., London, S.W.1. Glasgow Univ. Women Graduates' London Assn. Hon. Sec.—Miss L. Buist, M.A., 31 Birchington Road, Crouch End, London, N.8.

**UNIVERSITY EXTENSION.** An Extra-mural Education Committee, equally representative of the Univ. and working-class organizations, is prepared to supply classes, short courses, and single lectures to groups of students in Glasgow and the West of Scotland, so far as its resources will permit; a compendium of classes and lectures for the session is obtainable from the Organizing Secy., W.E.A., 177 Hill Street, Garnethill, Glasgow, C.3. Fortnightly and occasional free public lectures by profs. and others during the winter session.

**PUBLICATIONS.** *Calendar*; *Glasgow Univ. Magazine*, weekly during winter session; *Examn. Papers*, Prelim. and Degree, 6d. per set; *Annual Handbook* for matriculated students; *Handbook* for Overseas students and graduates; *History of the University of Glasgow* (Coutts); *Roll of Graduates* (1726-1896) (Addison); *Matriculation Albums* (Addison).

## THE YEAR 1936-37

**BENEFACTIONS AND GIFTS.** The late Sir Frederick C. Gardiner, £10,000 towards provision of a medical institute to be erected in connexion with the



Western Infirmary and to be called "The Gardiner Medical Institute," such institute to be at disposal of Regius Professor of Practice of Medicine for teaching and research. Trustees of the late William Guthrie Gardiner, allocation of £10,000 out of residue of estate for same purpose as foregoing, and of £2500 for provision of medical equipment therein. Sir Frederick Gardiner, bequest of further sum of £2500 for provision of medical equipment in the Gardiner Medical Inst. Imperial Chemical Industries, Ltd., £10,000, and Sir Wm. Waters Butler, of Birmingham, £100 towards cost of New Chemistry Building. Bellahouston Trustees, £129 to meet cost of apparatus for Dept. of Physiological Chem. The late Miss C. E. Douglas, bequest subject to life rent of her sister, of residue of her estate to establish and endow in conjunction with funds bequeathed by her brother, the late John Brown Douglas, a whole-time Professorship of Roman or Civil Law. The Sir Ernest Cassel Educational Trustees for further period of 3 yrs., £300 p.a. for teaching of Russian. Anonymous donor, £500 for Pædiatric Equipment Fund.

**NEW BUILDINGS.** Work begun on new Chemistry Institute.

**PUBLIC LECTURES GIVEN IN THE UNIVERSITY.** Prof. C. H. Browning, "Bacteria and Viruses—The Smallest Living Things"; Miss Irene Manton (Manchester), "The Structure of the Living Cell"; Prof. F. A. E. Crew (Edinburgh), "The Mechanism of Organic Inheritance"; Dr. G. Bond, "The Living Plant"; Prof. E. Hindle, "Parasitism"; Prof. A. J. Ballantyne, "Sight and Seeing"; Prof. D. M. Blair, "The Development of the Human Body"; Prof. G. M. Wishart, "The Maintenance and Adaptability of the Human Body."

**RETIREMENTS.** Prof. W. B. Stevenson (Hebrew and Semitic Langs.); Prof. G. G. Henderson (Chem.).

**RESIGNATION.** Prof. H. J. Paton (Logic), on apptment. to the White's Chair of Moral Philosophy, Oxford.

**DEATHS.** Prof. C. A. Martin (French); Dr. Norman Maclaren (Embryol.).

**HONORARY DEGREES.** *D.D.*—Prof. H. J. Cadbury; Rt. Rev. A. A. David, Bishop of Liverpool; G. F. MacLeod; Prof. T. W. Manson; A. K. Walton; C. C. J. Webb; Prof. Robert Will. *LL.D.*—C. Bailey; Prof. Jan Boeke; J. M. Cowan; Rt. Hon. W. E. Elliot; Frederic Lamond; Prof. A. D. McNair; Emer.-Prof. T. K. Monro; Emer.-Prof. Sir Robert Muir; Sir A. C. Seward; Emer.-Prof. R. Stockman; Prof. H. J. Vleeschauwer.

**STUDENTS.** Full-time: 4390 (men, 3391; women, 999). Part-time: 470 (men, 449; women, 21).

**DEGREES.** B.D., 16; M.A., 428; D.Litt., 1; Ed.B., 6; B.L., 35; LL.B., 26; B.Sc., 182; D.Sc., 6; M.B., Ch.B., 165; M.D., 18; Ch.M., 1; Ph.D., 19.

# THE ROYAL TECHNICAL COLLEGE, GLASGOW

Founded 1886

[Affiliated to the University of Glasgow]

CHAIRMAN OF THE BOARD OF GOVERNORS—ROBERT ROBERTSON, D.L.,  
B.Sc., LL.D., M.Inst.C.E.

DIRECTOR—Sir ARTHUR J. C. HUDDLESTON, C.M.G., O.B.E., M.A.  
Camb.

SECRETARY—A. MACKAY, F.C.I.S.

TREASURER—J. S. CROFT.

TUTOR AND LIBRARIAN—W. G. BURRELL, M.A.

Telephone : Glasgow, Bell 2501-3.

## TEACHING STAFF

### *Architecture and Building*

Hughes, T. H., F.R.I.B.A., F.S.I.,  
A.R.C.A.

Prof. and Dir. of Arch.  
Studies.

Smith, Wm. J., F.R.I.B.A. Lectr.

MacLean, A., B.A. Manc.,  
A.R.I.B.A. Lectr.

Cordiner, T. S., A.R.I.B.A.  
Asst. Lectr.

### *Botany and Bacteriology*

Lloyd, Blodwen, M.Sc. Wales, Ph.D.  
Lectr.

Boyes, J., B.Sc. Asst. Lectr.

### *Chemistry*

Wilson, F. J., D.Sc. Edin., Ph.D.  
Leip. Freeland Prof.

#### Lecturers :

Hay, Prof. R. (Metall. C.).

Sutherland, Maggie M. J., D.Sc.,  
F.I.C. (Inorg. C.).

Cranston, J. A., D.Sc., F.I.C.  
(Phys. C.).

Hopper, I. V., B.Sc. Lond., Ph.D.,  
A.R.C.S.I., F.I.C. (Org. C.).

Crawford, A. B., B.Sc., Ph.D.,  
A.R.T.C., A.I.C. (Analyt. C.).

Duncan, J. G., F.I.C., A.R.T.C.

M'Lean, J., B.Sc., Ph.D.

#### Demrs. :

Anderson, H. G. A., B.Sc., A.R.T.C.

Muir, G. D., B.Sc., Ph.D.

Good, W., D.Sc. Zürich, A.R.T.C.

Mitchell, T. J., A.R.T.C.

Syme, A. C., B.Sc., A.R.T.C.

McAllan, W., B.Sc.

Urie, A., B.Sc., A.R.T.C.

Luckhurst, K. J. C., B.Sc.

Wilson, D. M., B.Sc.

Wright, W. G. D., A.R.T.C.

Kennedy, H. W., B.Sc.

### *Chemistry, Technical*

Cumming, W. M., D.Sc.

Young Prof.

Cruikshanks, G. S., Ph.D. Leip.  
Lectr.

Rumford, F., B.Sc. Lond., F.I.C.  
Lectr.

Buchanan, Walter J., A.R.T.C.  
Lectr.

Lever, D., B.Sc., Ph.D., A.R.T.C.,  
F.I.C. (Sugar Manuf.) Lectr.

### *Colour Chemistry and Dyeing*

Steven, A. B., B.Sc. Lond. Lectr.

*Engineering, Civil and Mechanical, and Applied Mechanics*

Kerr, Wm., Ph D., A.R.T.C.

Prof.

Sinclair, J. H., M.Sc. Vict., B Eng.  
Liv.

(Eng. Design) Chief Lectr.

Hunter, W., B.Sc. Lond., Ph.D.,  
A R.T.C.

(Civil E.) Chief Lectr.

Ramsay, J., B.Sc. Lond. (App.  
Mechs.) Chief Lectr.Sneeden, O., B.Sc., Ph D (Heat  
Eng.) Chief Lectr.

Smith, J., B.Sc. Lectr.

Caldwell, P. S., Ph.D., A R.T.C.  
Lectr.M'Broom, H. L., B.Sc., Ph D.,  
A R.T.C. Lectr.Moir, C. M., B.Sc. Lond., Ph.D.  
Lectr.Scott, A. W., B.Sc., Ph.D.,  
A.R.T.C. Lectr.Caldwell, J., B.Sc., A.R.T.C.,  
Wh. Sch. Lectr.Thomson, G., M.A. Edin. (San.  
Eng.) Lectr.

Asst. Lectrs. and Demrs. :

Garrick, J. A., B.Sc.

Russell, R., B.Sc., Ph.D., Dipl.  
R.T.C.

Russell, R.

Shannon, J. F., Ph.D., A R.T.C.

Laird, A. M., B.Sc., A.R.T.C.

Thomson, A. S. T., Ph.D.,  
A R.T.C.

Smith, R., B.Sc., A R.T.C.

Arnold, R. N., M.S. Ill., Ph.D.

Sheff., B.Sc., A.R.T.C.

Tivey, J. H., B.Sc.

Research Asst.

*Engineering, Electrical*

Smith, S. Parker, D.Sc. Durh.

Prof.

Meade, F. E., M.I.E.E.

Chief Lectr.

Asst. Lectrs. and Demrs. :

Farrell, J. F. E., B.Sc.

Shearer, G., B.Sc.

Cowan, J. A., A.R.T.C.

Bradshaw, E., M.Sc. Tech. Manc

Fairley, E. S., B Sc., A.R.T.C.

Tait, J. S., Dipl. R T C.

Paterson, W., Dipl. R.T.C.

*Engineering, Mining*

Bryan, A. M., B.Sc., M.I.M.E.

Prof.

Stevenson, J., B.Sc. Lectr.

Miller, Wm., B.Sc. Lectr.

Hibberd, G., Ph.D., A.R.T.C. Demr.

Clarke, D. A., B.Sc., A.R.T.C.

Research Asst

*Geology, Economic*

Edwards, E. J., M.Sc. Manc. and

Leeds Lectr.

*Mathematics*

Street, R. O., M.A. Camb., M.Sc.

Liv., F.R.A.S. Prof.

Paul, J. I., M.A., B.Sc. Lectr.

Geddes, S., M.A., B.Sc. Lectr.

Brown, L. M., M.Sc. Brist. Lectr.

*Metallurgy*

Hay, R., B.Sc., Ph D, F.I.C. Prof.

Chaston, J. C., B Sc. Lond.,  
A.R.S.M. Lectr.

Howat, D. D., B.Sc., Ph.D. Lectr.

White, J., B.Sc., Ph.D. Lectr.

McIntosh, A. B., B.Sc., A.R.T.C.

Asst. Lectr. and Demr.

Caulfield, T. H., B.Sc., Ph.D.

Research Asst.

*Natural Philosophy*

Muir, J., M.A., D Sc. Camb.

Freeland Profr.

M'Quistan, D. B., M.A., B.Sc.

Assoc. Prof.

Rankin, J. S., B.Sc., Ph.D.,  
A.R.T.C. Lectr.

Asst. Lectrs. and Demrs. :

Symon, F. J., B.Sc., Ph.D.

Macaulay, J. M., B.Sc., Ph.D.,  
A.R.T.C.

McLaren, A. S., B.Sc.

Jackson, W., M.A., B.Sc.

Sillitto, A. G., M.A.

<i>Naval Architecture</i>		Murray, I., M.D., F.R.F.P.S. Glas.
Gray, W. M., B.Sc.	Lectr.	(Physiol.) Lectr.
<i>Pharmacy</i>		Mactaggart, Cecilia I., M.A., B.Sc.
Todd, J. P., Ph.D., Ph.C.	Prof.	(Zool.) Lectr.
Schorn, E. J., A.I.C., Ph.C.		Milne, G. R., Ph.C. Asst. Lectr.
(Pharm. Chem. and Pharmaceutics)	Lectr.	Mollison, A. W., B.Sc., Ph.C.
Rattray, G., Ph.C. (Pharmacognosy)	Lectr.	Demr.
Tompsett, S. L., B.Sc. Lond., Ph.D. (Biochem. Analysis)	Lectr.	<i>Sugar Manufacture</i> , v. Chem- istry, Tech.
		<i>Textile Manufacture</i>
		Windle, J., F.T.I.
		2 Asst. Lectrs.

## GENERAL INFORMATION

Anderson's College, founded in 1796, the College of Science and Arts (1823, the first "Mechanics' Institution"), and the Atkinson Institution (1861) were amalgamated in 1886 under the title of the Glasgow and West of Scotland Technical College, which was changed in Feb. 1912 to the Royal Technical College. The College was affiliated to the Univ. of Glasgow in March 1913.

The College building, comprising over 7 acres of floor space, cost, with equipment, £400,000. Qualifying courses are provided in the subjects named above for Degrees of the Univ. in Engin., Applied Chem., Pharmacy and Archit., and for the Diploma of the College in Civil, Mech., Elect., Chemical and Mining Engin., Naval Archit., Chem., Sugar Technol. (Chem.), Sugar Technol. (Engin.), Dyeing, Metallurgy, Building and Textile Manufacture. There are also Departments of Navign. and Bakery, as well as numerous evening classes in other subjects, mainly technological. The courses for the Diploma cover 3 yrs.; for the Associateship in any of the Diploma subjects, attendance during 4 yrs. is required. The evening lecturers are not included in the above lists; some of their work is, however, of university and even post-graduate standard. Much research work, for the prosecution of which a development fund of about £100,000 has been raised, is carried on at the College. The Andersonian Library, so named to commemorate the founder of the College, Prof. John Anderson, includes the library formed by him and the James Young collection of early alchemical, metallurgical, and chemical books.

The Glasgow School of Architecture is maintained by the College and the Glasgow School of Art working in co-operation through a Joint Committee under whose authority its Diplomas (5 yrs.' course) are issued.

The College has an athletic ground, and within the College buildings a well-equipped gymnasium.

FEES for tuition: diploma, 25 gs. p.a.; degree, 90 gs. for course.

PUBLICATIONS. *Calendar*; *Annual Report*; *Research Journal*.

## THE YEAR 1936-37

BENEFACTIONS. Bellahouston Trustees, £1000. Carnegie Trust, £1000, towards endowment of Library.

DEATH. Prof. David Ellis (Bacteriol.).

RESEARCH JOURNAL. The thirteenth number was issued, containing 22

papers in Natural Philos., Chemistry, Metallurgy, Mechanics, Civil Eng., Mech. Engin., Elect. Engin., Mining Engin., Naval Architecture and Bacteriol.

UNIVERSITY EXTENSION. 1883 part-time students of 21 years of age or over were in organized classes. 377 tickets were issued for the courses in Astronomy.

STUDENTS. Full-time: preparing for a first Degree or Diploma, 443, undertaking advanced work, 29. Part-time: preparing for a first Degree or Diploma, 331; undertaking advanced work, 26; occasional students, 1922; taking courses not of a Univ. standard, 925.

DEGREES OBTAINED. Ph.D., 6; B.Sc. in Applied Science, 42; B.Sc. Lond., 3.

# UNIVERSITY OF ST. ANDREWS

Founded 1411

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—The Earl  
BALDWIN OF BEWDLEY, K.G., P.C., M.A. Camb., D.C.L. Ox. and  
Durh., LL.D.

VICE-CHANCELLOR AND PRINCIPAL OF THE UNIVERSITY AND OF THE  
UNITED COLLEGE—Sir JAMES COLQUHOUN IRVINE, C.B.E., D.C.L.  
Durh., LL.D. Edin. and Glas., D.Sc. St. And., Liv. and Princet.,  
Sc.D. Camb., Yale and Penn., Ph.D. Leip., F.R.S.

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—Hon. Lord  
MACGREGOR MITCHELL, M.A., LL.D.

SECRETARY AND REGISTRAR—ANDREW BENNETT, LL.D.

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PRINCIPAL OF ST. MARY'S COLLEGE—Rev. J. H. MILLER, C.B.E., T.D.,  
M.A. Glas., D.D. Edin.

PRINCIPAL OF UNIVERSITY COLLEGE, DUNDEE—.....

Telephone : St. Andrews 35.

## TEACHING STAFF

### *Anatomy*

Waterston, D., M.A., M.D., C.M.  
Edin. Bute Prof.

Mulligan, J. H., M.B., Ch.B.  
(Regional A.) Lectr.

Kidston, Margaret H., B.Sc. Asst.  
Mitchell, Lt.-Col. T. J., D.S.O.,  
M.D., Ch.M. Asst.

Dow, D. R., M.D., F.R.C.P.E.,  
D.P.H. Prof.\*

Robertson, Bruce Smith, M.B.,  
Ch.B. Lectr.\*

Skae, F. M. T., M.B., C.M. Asst.\*

*Biology, v. Bot. and Zool.*

### *Botany*

Graham, R. J. D., M.A., D.Sc.  
Edin. Prof.†

Smith, Edith P., B.A., Ph.D.  
Edin., F.L.S. Lectr.\*

Macdonald, J. A., B.Sc., Ph.D.  
Lectr.

Taylor, R. A., B.Sc., Ph.D.

Carnegie Teaching Fellow  
& Asst.\*

### *Chemistry*

Read, J., M.A. Camb., B.Sc. Lond.,  
Ph.D. Zür., F.R.S. (Dir. of  
Chem. Res. Lab.) Prof.

Steele, Ettie S., M.A., B.Sc., Ph.D.  
Lectr. & Asst.

Robertson, G. J., M.A., Ph.D.,  
D.Sc. Lectr.

Macdonald, J. Y., M.A., Ph.D.  
Lectr.

Dewar, J., B.Sc., Ph.D.

Carnegie Teaching Fellow  
and Lectr.

McKenzie, Alex., M.A., D.Sc.,  
Ph.D. Berl., F.R.S. (to  
30.9.38) Prof.\*

Ross, J. D. M'B., M.B.E., M.A.,  
D.Sc. Edin. (Phys. C.)  
James White Lectr. & Asst.\*

\* At Dundee.

† At St. Andrews and Dundee.

Roger, R., B.Sc., Ph.D. Lectr.\*  
 Smith, Isobel A., M.A., Ph.D.,  
 D.Sc. Lectr. and Asst.\*

*Classics*

Rose, H. J., M.A. Ox. (Gk.) Prof.  
 Tate, J., M.A. (Gk.) Lectr.  
 ..... Prof.  
 Laidlaw, W. A., M.A. (Latin)  
 Lectr.

Mitford, T. B., M.A. (Latin) Lectr.  
 Dall, Mrs. A., M.A., Ph.D.  
 Jr. Asst.  
 Lorimer, W. L., M.A. (Latin)  
 Reader.\*

*Dentistry, v. infra*

*Divinity*

Duncan, G. S., O.B.E., M.A., D.D.  
 (and Bibl. Crit.) Prof.  
 Baxter, J. H., M.A., D.D. Glas.,  
 D.Litt. (Eccles. Hist.) Prof.  
 Dickie, Rev. E. P., M.C., B.A.  
 Ox., M.A., B.D. Edin. Prof.  
 Baillie, Rev. D. M., M.A., D.D.  
 (Systematic Theol.) Prof.  
 Forrester, Rev. W. R., M.C., M.A.,  
 B.D. (Practical Theol. and  
 Christian Ethics) Prof.

*Economics*

Nisbet, J. W., M.A., LL.B. Lectr.  
 Prest, W., M.A.  
 Carnegie Teaching Fellow  
 and Asst.  
 Mitchell, A. B., M.A. Asst.

*Education*

M'Clelland, W. W., M.A., B.Sc.,  
 B.Ed. Bell Prof.  
 Snodgrass, N. S., M.A. (Admin. of  
 Schs., etc.) Lectr.†

*Engineering, Civil and Mechanical\**

Fulton, A. R., D.Sc. Prof.\*  
 Hay, J. M., B.Sc. (Mech. E. and  
 Machine Design)  
 Carnegie Teaching Fellow  
 & Lectr.\*

Steel, G. S., B.Sc. Lond., Ph.D.  
 (Civ. E. and Struct. Design)  
 Lectr.\*  
 Hall, A. P., B.Sc. Asst.\*

*Engineering, Electrical\**

Mackay, W. M., M.C., B.Sc.  
 Lectr.\*

*English Lang. and Lit.*

Webster, A. Blyth, M.A., LL.D.  
 (E. Lit.) Berry Prof.  
 Clyde, W. McC., M.A., Ph.D.  
 Lectr.\*  
 Oakden, J. P., M.A., Ph.D. Lectr.  
 Falconer, A. F., M.A. Glas., B.A.,  
 B.Litt. Ox. Lectr.  
 Walker, W. A., M.A. Asst.\*

*French Lang. and Lit.†*

Lewis, C. B., M.A., Litt.D. Camb.,  
 L. ès L. Paris, Ph.D. Breslau  
 Lectr.†  
 Stewart, W. M'C., M.A. Lectr.†  
 Dickinson, Gladys, B.A. Lond.,  
 L. ès L. Lyon Asst.†  
 Mackenzie, F., M.A. Asst.†

*Geography†*

..... Lectr.†  
 Cumming, G. A., B.Sc., Ph.D.  
 Asst.  
 Scott, J. F., B.Sc., Ph.D. Glas.  
 Asst.†

*Geology†*

Innes, D. E., M.C., M.A. Prof.†  
 ..... Lectr.†  
 Scott, J. F., B.Sc., Ph.D. Glas.  
 Asst.†  
 Cumming, G. A., B.Sc., Ph.D.  
 Asst.†

*German†*

[Lectr.†]  
 Hayens, K. C., M.A., D.Litt.  
 Carr, C. T., M.A. Lectr.†  
 Wardale, W. L., M.A.  
 Carnegie Teaching Fellow  
 & Asst.

\* At Dundee.

† At St. Andrews and Dundee.

Robertson, H. L., M.A., Ph.D.	Asst.†	<i>Philosophy</i>	
<i>Hebrew and Oriental Langs.</i>		Wright, J. N., M.A. (Logic and Metaphysics)	Prof.
Honeyman, A. M., B.D., M.A., B.Litt., Ph.D.	Prof.	Jackson, R., M.A.	Lectr.
<i>History, Mediæval</i>		Oeser, O. A., M.Sc., Ph.D. (and Exper. Psychol.)	Lectr.†
Cant, R. G., M.A.	Lectr.	Pierce, W. O'D., M.Sc. Manc.	Asst.
<i>History, Modern</i>		Smith, B. B., M.A.	Asst.
Williams, J. W., M.A., B.Litt. Ox.	Prof.	Stedman, R. E., M.A., Ph.D.	Lectr.*
Ketelbey, D. M.	Asst.	<i>Philosophy, Moral</i>	
<i>History, Modern, American and Colonial</i>		Knox, T. M., M.A. Ox.	Prof.
.....	Lectr.	<i>Physics</i>	
<i>Italian</i>		Allen, H. S., M.A., D.Sc., F.I.P., F.R.S. (Dir., Phys. Res. Lab.)	Prof.
.....	Lectr.	Jack, D., M.A., B.Sc., Ph.D.	Lectr.
<i>Law, Scots</i>		Arnot, F. L., B.Sc., Ph.D.	Lectr.
Allison, J., C.B.E., M.A., LL.B.	Lectr.*	Taylor, A. M., M.A., Ph.D.	Lectr.
<i>Law, Conveyancing</i>		Peddie, W., D.Sc. Edin.	Harris Prof.*
Carlton, H. J., M.A., LL.B.	Lectr.*	Forrest, J., M.A., B.Sc. Glas., D.Sc.	Lectr.*
<i>Mathematics, Pure and Applied</i>		Smith, Winifred J., B.Sc., Ph.D.	Asst.*
Turnbull, H. W., M.A., F.R.S.	Reg. Prof.	Smart, R., M.A.	Asst.*
Rutherford, D. E., M.A., B.Sc.	Lectr.	<i>Physiology</i> [Chandos Prof.]	
Timms, G., B.Sc., Ph.D.	Asst.	Herring, P. T., M.D. Edin.	Lectr.
Smith, R. A., Carnegie Teaching Fellow and Asst.		Hynd, Alex., M.A., D.Sc.	Asst.
Copson, E. T., M.A., D.Sc.	Prof.*	Weston, F. M.	Asst.
Cowling, T. G., M.A., D.Phil.	Lectr.*	Mitford, Mrs. M. T. C., M.B., Ch.B.	Asst.
Gilbert, Cecil, Ph.D.	Asst.*	Garry, R. C., D.Sc., M.B., Ch.B.	Prof.*
Faulkner, T. E., M.A.	Asst.*	Stiven, D., D.Sc., Ph.D.	Lectr.
<i>Medicine and Surgery, v. infra</i>		<i>Political Science</i>	
<i>Music</i>		Brown, J. M., M.A.	Lectr.
Sawyer, F., B.Mus. Durh., M.A.	Lectr.	<i>Psychology, v. Philosophy</i>	
<i>Natural History, v. Bot. &amp; Zool.</i>		<i>Theology, v. Divinity</i>	
		<i>Zoology</i>	
		Thompson, Sir D'Arcy W., C.B., Sc.D. Dub., M.A., D.Litt., F.R.S.	Prof.

\* At Dundee.

† At St. Andrews and Dundee.



Sutherland, Christina H., M.A.,  
B.Sc. Aber. Asst.  
Fleming, Katherine, B.Sc. Asst.  
Peacock, A. D., D.Sc. Durh. Prof.\*  
Sanderson, Ann R., B.Sc., Ph.D.  
Carnegie Teaching Fellow  
& Asst.\*  
Comrie, Leslie, B.Sc. Asst.\*

### Medicine

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

#### *Anæsthetics*

Mills, A., M.D., M.R.C.P. Ed.  
Lectr.\*

3 Instrs.

#### *Bacteriology*

Tulloch, W. J., O.B.E., M.D.,  
D.P.H. Prof.\*

..... Lectr.

McIntosh, D. G., M.B., Ch.B.  
Asst.\*

#### *Diseases of Children* [Lectr.\*

Alexander, Prof. R. C. (v. Surg.)

Thomson, J., M.B., Ch.B.,  
F.R.C.S. Ed. Lectr.\*

..... Clin. Tutor.\*

#### *Diseases, Mental*

..... Lectr.\*

#### *Diseases, Throat, Nose, and Ear*

Mathers, R. P., M.D. Edin., D.P.H.  
Lectr.\*

Gibson, M. J., M.B., Ch.B. Ed.,  
F.R.C.S. Ed. Clin. Tutor.\*

Henderson, G., M.B., Ch.B.  
Clin. Tutor.\*

#### *Diseases, Skin* [Lectr.\*

Kinnear, J., M.D., M.R.C.P. Ed.

#### *Fevers*

Burgess, W. L., M.D., D.T.M. and  
H., M.R.C.P. Ed., D.P.H.

Reader.\*

Davidson, W. A., M.B., Ch.B.  
Asst.\*  
Clark, W. B., M.B., Ch.B. Asst.\*

#### *Forensic Medicine*

Dorward, W. F., B.Sc., M.B.,  
Ch.B. Lectr.\*

#### *Gynæcology*

..... Prof.\*  
Chisholm, A. E., M.B., Ch.B.,  
F.R.C.S. Ed. Clin. Tutor.\*  
Herring, Agnes J., B.Sc., M.B.,  
Ch.B. Asst.\*

#### *Materia Medica*

Charteris, F. J., M.D. Glas. Prof.\*  
Ames, Dorothy H. M., B.Sc., M.D.,  
D.P.H. Asst.\*

#### *Medicine*

Patrick, Adam, M.A., M.D., Ch.B.  
Glas., F.R.C.P., F.R.F.P.S.  
Glas. Prof.\*  
Clark, J. G., M.D. Asst.\*

#### *Medicine, Clinical\**

Lectrs. :

Charteris, Prof. F. J.\*  
Patrick, Prof. A.\*  
Milne, F. M., M.A., B.Sc., M.B.,  
Ch.B., D.P.H.\*  
Stalker, J. M., M.D.\*

Tutors :

Macklin, A. H., O.B.E., M.C., M.D.\*  
Clark, J. G., M.D.\*  
Kirkland, A. A., M.B., Ch.B.\*

#### *Midwifery, v. Gynæcology*

#### *Ophthalmology*

Moodie, A. R., M.A., M.D.,  
F.R.C.S. Ed.  
Lectr. and Clin. Lectr.\*

MacGillivray, A. M., M.D.,  
D.O.M.S. Clin. Lectr.\*  
Scott, A. A. B., M.D. Tutor.\*

*Pathology*

Cappell, D. F., M.D., Glas. Prof.\*  
 Tudhope, G. R., M.B., Ch.B.,  
 Ph.D., D.P.H.

Lectr. & Asst.\*  
 Hutchison, H. E., M.B., Ch.B.  
 Clin. Lectr.\*

*Public Health*

Burgess, W. L. (also Fevers)  
 Reader.\*  
 Scott-Dickson, Margaret, M.B.,  
 Ch.B., D.P.H. Asst.\*

*Radiology and Elec. Therap.*

Miller, G. H. S., M.B., Ch.B.  
 Lectr.\*

*Surgery*

Alexander, R. C., M.A., M.B.,  
 Ch.B., F.R.C.S. Ed. Prof.\*  
 Campbell, W. G., M.B., Ch.B.,  
 F.R.C.S. Eng., L.D.S.  
 Asst.\*

*Surgery, Clinical\**

Lectrs. :  
 Alexander, Prof. R. C.  
 Brown, F. R., M.B., Ch.B.,  
 F.R.C.S. Ed.  
 Melville, R. S., M.B., Ch.B.,  
 F.R.C.S. Ed.  
 Tutors :  
 Robb, J. J., M.B., Ch.B., F.R.C.S.  
 Ed.  
 Campbell, W. G. (also Surg.).  
 Sturrock, G. M., M.B., Ch.B.,  
 F.R.C.S. Ed.

*Tuberculosis*

Hunter, J. H., M.B., Ch.B.,  
 D.P.H. Instr.\*

*Venereal Diseases*

Keay, D. M., M.B., Ch.B., D.P.H.  
 Instr.\*

*Dentistry**Dental Anat. and Physiol. and Oral Hygiene*

Campbell, H. G., L.R.C.P.,  
 L.R.C.S. Ed., L.D.S. Lectr.\*

*Dental Bacteriology*

Cassaday, E. E., M.B., Ch.B.  
 Edin., D.P.H., L.D.S. Lectr.\*

*Dental Histology*

Anderson, D. L., L.D.S. Lectr.\*

*Dental Mechanics*

Bruce, J., L.D.S. Lectr.\*

*Dental Metallurgy*

Whyte, R., L.D.S. Lectr.\*

*Dental Materia Medica*

Fraser, W. C., L.R.C.P., L.R.C.S.  
 Ed., L.D.S. Lectr.\*

*Dental Surgery and Pathology and Dental Jurisprudence*

Tattersall, W. R., L.D.S. Lectr.\*

*Operative Dental Surgery*

Petrie, J. M., L.D.S. Lectr.\*

*Orthodontics*

Campbell, W. G., M.B., Ch.B.,  
 L.D.S., D.D.S. Lectr.\*

*Clinical Tutors :*

Whyte, R., L.D.S. (Dental Diag-  
 nosis).  
 Johnston, J. M., L.D.S. (Oper.  
 Technique).

*Andrew Lang Lecturer*

1937-38, Prof. Blyth Webster.

*Gifford Lecturer in Nat. Theol.*

1937-38, Dr. W. G. de Burgh.

\* At Dundee.

## GENERAL INFORMATION, v. also pp. 341 ff.

The University was founded in 1411. In 1747 St. Salvator's (1450) and St. Leonard's (1512) Colleges were united under the name "United College of St. Salvator and St. Leonard." St. Mary's College (1537) has, since 1579, been

restricted to the teaching of Theology. University College, Dundee (1881), was affiliated to and made to form part of the University in 1897.

**LIBRARY:** 290,000 printed vols. (some of 15th and 16th centuries). MSS. include fine Persian specimens and large folio Antiphonarium. College Library at Dundee. **MUSEUMS** at St. Andrews—Anat., Anthropol., Ethnol., Geol., Mineral., Nat. Hist.; at Dundee—Geol., Med., Nat. Hist. **LABORATORIES** at St. Andrews—in all above depts. except Med., also Chem. (with special Research lab.), Marine, Physics, Physiol., Bot. Garden. At Dundee—Anat., Bact., Chem., Embryol., Engin. (Elec., Hydraulic, Mech.), Mat. Med., Maths., Nat. Hist., Physics, Physiol., Pathol.

**FACULTIES.** Divinity, Arts, Science, Medicine. Deans: Prof. G. S. Duncan (Biblical Criticism), Prof. Blyth Webster (English), Prof. Herring (Physiology), Prof. Charteris (Materia Med.).

#### ADMISSION, v. Appendix I.

**DEGREES, ETC., v.** also pp. 342 ff. Courses for graduation in Arts and Science are given both in the United Coll., St. And., and in Univ. Coll., Dundee, some being given in both places, some—Greek, Hebrew, Hist., Moral Philos., Psychol., Pol. Econ.—only in St. And., some—Engineering—only in Dundee; Medical, after the first two yrs., and Dental solely, in Dundee, where facilities for clinical instruction are available. Here also are provided courses in Scots Law and Conveyancing.

The M.A. Course includes a General and a Special examn. The former, which must be completed before proceeding to the Special, embraces at least 5 subjects, of which Latin or Greek must be one, another must be either Maths. or Philos., at least two must be linguistic, and at least one scientific. *Senatus* can, on recommendation of the Fac. of Arts, allow another subject or subjects to be taken in lieu of Lat. or Greek. *Foreign students* may take Arabic or Hebrew in lieu of Latin or Greek. In the Special examn. two cognate subjects must be taken, the whole examn. being passed at one time.

The B.Sc. Ordinary degree in Pure Science involves a 3 yrs.' course, embracing at least 4 subjects with a 1st examn. (4 subjects) and a 2nd (2 subjects); the Honours degree involves a 4 yrs.' course (the last year being devoted exclusively to advanced study in the Hons. subject) with 2 examns.—a 1st in 4 subjects and an Honours in one.

Dental Surgery. B.D.S. (5 yrs., of which not less than 3 at the Univ., the remaining 2 at a recognized Univ. or School); M.D.S. (1 yr. later by examn. and thesis); L.D.S. and D.P.D. (Diploma in Public Dentistry) *see* below.

**DIPLOMAS.** Education, for graduates who complete the first year of the Ed.B. course; D.P.H., 12 months; L.D.S., 4 yrs.; D.P.D., 5 mos. after obtaining registrable Dental qualification.

**FEES** (v. also Carnegie Trust, p. 345). Matriculation, £2:12:6 p.a. Inclusive tuition fees for M.A., £47:5s.; Hons. M.A., £63; B.D., £40:19s.; B.Sc., £80; B.Sc. (Engineering), 90 gs.; B.Sc. Hons., 90 gs.; M.B., Ch.B., £182; B.D.S., £110:12:6; L.D.S., £88:10s. Combined Courses: M.A. and B.Sc., 112½ gs.; M.A. and M.B., Ch.B., £208; M.A., B.Sc. and M.B., Ch.B., £236; B.Sc. and M.B., Ch.B., £220; M.B., Ch.B. and L.D.S., £208:7s. D.P.D., £25; D.P.H., £31:10s. The above do not include fees for hospital or cases of labour, or laboratory fees for use of apparatus, etc. Maximum fee for Research students, 5 gs. a term. Degree fees for M.A., 7½ gs.; B.D., 7½ gs.; B.Sc., 9 gs.; M.B., Ch.B., 33 gs.; B.D.S., 25 gs.; M.D. or Ch.M.,

20 gs. ; D.Litt., D.Sc., L.D.S. or M.D.S., 15 gs. ; Ph.D. or D.P.H., 10 gs. ; B.Phil. or B.Litt., 6 gs. ; D.P.D., 5 gs. Dipl. in Educ., £4 : 14 : 6.

ADVISERS OF STUDENTS. At St. Andrews : in Arts, Prof. A. B. Webster ; in Sci., Prof. P. T. Herring ; in Med., Prof. D. Waterston. At Dundee : in Arts, Prof. E. T. Copson ; in Sci., Prof. A. McKenzie ; in Med., Prof. F. J. Charteris.

RESIDENCE. University Hall, Kinnessburn and Afton (Warden : Miss V. C. Murray, M.A.) ; Chattan House (Warden : Miss E. S. Steele, B.Sc., Ph.D.), for Women at St. Andrews, £66 and upwards p.a., excl. of tuition fees. Airlie House for women, Dundee (Warden : Miss V. W. Moffatt), £62 : 10s. p.a. St. Salvator's Hall, Dean's Court, Edgecliff West and Swallowgate, for men, (Warden : B. Babington Smith, M.A.) at St. Andrews, from £51, excl. of tuition fees. William Low Residence (Warden : Dr. H. E. Hutchison) for Medical Students during clinical studies, £63 p.a. at Dundee.

SCHOLARSHIPS FOR GRADUATES, v. also pp. 344-45 : 14, annual value about £1711. Guthrie (£135 p.a. for 4 yrs.), tenable at Oxford or Cambridge or (with special permission) at a foreign Univ. ; Ramsay (£150 p.a. for 2 yrs.), Bruce (£150 p.a. for 2 yrs.), and Berry (£160 p.a. for 2 yrs.) may, with permission of United College, be tenable in another Univ. or Institution.

UNIVERSITY APPOINTMENTS BOARD. Secretary—D. J. B. Ritchie, B.L.

AN ALUMNUS ASSOCIATION was founded in 1926. ST. ANDREWS UNIV. CLUB, LONDON, founded 1904. Hon. Sec.—R. Bruce Harley, B.Sc., Kinkell, Leighton Avenue, Pinner, Middlesex. LONDON ASSOCIATION OF ST. ANDREWS UNIV. WOMEN, founded 1926. Sec.—Miss A. M. Bozman, 9 Handel Mansions, Handel St., London W.C.1. Alumnus Clubs also exist in Aberdeen, Birmingham, Dundee, Edinburgh, Fife, Glasgow, Johannesburg, Leeds, Manchester, Montreal, Newcastle-on-Tyne, Selkirk, Toronto, New York.

PUBLICATIONS. *Calendar* (Sept.). 3s. 6d. ; U. Coll. Dundee, *Calendar*, 6d. ; Students' Repve. Council's *College Echoes* ; Alumnus Association's *Chronicle* (half-yearly).

## THE YEAR 1936-37

BENEFACTIONS. Mr. and Mrs. William Boyd, £2500 (second instalment of £17,500 for institution of Chair in Dental Surg.) ; Imperial Chemical Industries, Ltd., £25 St. Andrews and £25 Dundee for chemical research ; Carnegie United Kingdom Trust, Tudor Church Music ; St. Andrews Univ. Alumnus Assn. of S. Africa, bust of General Smuts ; Dr. Alex. Shewan, Rev. John Beveridge, late Prof. W. M. Lindsay and Miss Lindsay, books to Univ. Library ; Sir D. Y. Cameron, Rev. J. D. Miller, Dr. F. O. Salisbury and Mrs. Low, pictures ; Dr. W. N. Boase, land near Recreation Park ; Mrs. Miller, £3300 for T. D. Miller Residential Scholarship ; Dr. William Low, bequest of £4000 and Mrs. Low, £100 for Medical Students' Residence ; Miss E. M. V. Scott Lang, bequest of £20,000 for Astronomy Lectureship.

NEW BUILDINGS. William Low Residence for Medical Students, Dundee, opened ; Residence Halls at Edgecliff and Swallowgate opened ; additions to Physiology Dept., Bute Medical Buildings ; additions to Chattan House Residence.

NEW POSTS. Lectureships in Clin. Med., Chem. (Dundee), Chem. (St. Andrews), Physiol. (Dundee) and Polit. Sci. ; Assistantships, one in Maths. (Dundee), two in Clin. Dentistry, one in Dis. of Throat, Nose and Ear, one in Econ., one in Clin. Surg.

EXTRA-MURAL CLASSES. Courses of Lectures (Adult Educn.) were conducted in 8 centres: 206 enrolments. W.E.A. Lectures, 3 courses, total enrolment about 130.

LECTURES DELIVERED AT THE UNIVERSITY. Andrew Lang Lecture on "Lang and the Literature of Sport," by Bernard Darwin; Gifford Lectures on "The Theology of the Greek Philosophers in the Pre-Socratic Age," by Prof. Werner Jaeger (Chicago); Lectures on "Preaching," by Rev. George F. Macleod (Govan); Inaugural Lecture on "Action," by Prof. T. M. Knox (Moral Philos.); Lectures on "The United States," by Prof. D. S. Muzzey (Columbia, N.Y.).

RESIGNATIONS. R. D. Bell (Dental Metall.); A. B. Stewart (Bacteriol.); G. L. Montgomery (Clin. Pathol.); F. Bath (Maths.); J. P. Campbell (Anat.); J. M. Morgan (Clin. Medicine); M. Fairlie (Gynæcol.); W. L. Kinnear (Diseases of Children); J. A. Cuthbert (Fevers); W. W. Sawyer (Maths.); F. Walker (Geol. and Geog.); W. L. Burn (Mod. American and Colonial Hist.).

DEATHS. Prof. W. M. Lindsay (Humanity); W. M. Cumming (Bacteriol.).

HONORARY DEGREES. *D.D.*—Rev. W. M. Wightman, H. G. Wood. *LL.D.*—H.R.H. the Duke of Kent, R. W. Bingham, Sir Barry Jackson, W. O. Kermack, A. MacGillivray, Sir H. A. Rose.

STUDENTS. Full-time: 846; research, 28; preparing for a first degree, 770; diploma students, 48. Part-time: 109; research, 12; diploma, 24; occasional, 73.

DEGREES. B.D., 5; M.A., 79; B.Sc., 38; D.Litt., 1; M.B., Ch.B., 43; M.D., 3; Ph.D., 8; D.P.H., 3; L.D.S., 8; D.P.D., 4; Dipl. in Educn., 11; Hons. granted subsequent to Graduation: Arts, 7; Sci., 24.

# THE QUEEN'S UNIVERSITY OF BELFAST

Founded 1909

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDON-  
DERRY, K.G., P.C., M.V.O., D.C.L., LL.D.

PRO-CHANCELLORS—The Rt. Hon. LORD JUSTICE ANDREWS, B.A.  
Dub. ; Col. T. SINCLAIR, C.B., M.D., M.Ch. R.U.I., F.R.C.S. Eng.,  
M.P.

PRESIDENT AND VICE-CHANCELLOR—F. W. OGILVIE, M.A. Ox.

REPRESENTATIVES IN PARLIAMENT—See p. 18.

REGISTRAR—GREGG WILSON, O.B.E., M.A., Ph.D., D.Sc.

HON. TREASURER—GREGG WILSON (*ad interim*).

LIBRARIAN—.....

SECRETARY—R. H. HUNTER, M.D., M.Ch., Ph.D.

BURSAR—JOHN GREEN, C.A.

CHAIRMAN OF CONVOCATION—The Rt. Hon. Mr. JUSTICE BROWN, B.A.

Telephone : Belfast 21821.

## TEACHING STAFF

<i>Accounting</i> , v. Comm.	<i>Art (Fine Arts)</i> [Spec. Lectr.
<i>Agriculture</i> , v. <i>infra</i>	Holford, Prof. W. G., B.Arch.,
<i>Anatomy</i>	A.R.I.B.A., M.T.P.I.
Walmsley, T., M.D. Glas. Prof.	<i>Bio-Chemistry</i>
Hunter, R. H., M.D., M.Ch., Ph.D.	Harrison, D. C., D.Sc. Lond.,
Lectr.	Ph.D. Camb., A.I.C.
Woodside, C. J. A., M.B., B.Ch.,	" J. C. White " Prof.
B.A.O., F.R.C.S.I. Lectr.	Andrews, S., B.Sc., M.B., B.Ch.,
McFadden, G. D. F., M.B., M.Ch.,	B.A.O. " J. C. White " Lectr.
F.R.C.S. (Exper. A.) Lectr.	Hawthorne, J. R., M.Sc. Asst.
Darling, J. S., M.B., B.Ch., B.A.O.	Loughridge, J. S., M.D., F.R.C.S.
Demr.	(Bio-Phys.) Asst.
Frazer, Muriel J. L., M.B., B.Ch.,	<i>Botany</i>
B.A.O. Demr.	Small, J., D.Sc. Lond. Prof.
Cullen, C. H., M.B., B.Ch., B.A.O.	Lynn, Mary J., D.Sc. Lectr.
Demr.	Kertland, M.P.H., M.Sc. Demr.
M'Neill, J. C., M.A., L.D.S. (Dental A.) Demr.	<i>Celtic</i>
<i>Archæology and Ancient History</i>	O'Brien, M., M.A., Ph D. Lectr.
Davies, O., M.A. Ox. Lectr.	<i>Chemistry</i>
	Stewart, A. W., D.Sc. Glas. Prof.

Wilson, C. L., M.Sc., Ph.D. Asst.  
 Pink, R. C., B.Sc. Asst.  
 Toms, B. A., M.Sc. Asst.

*Chemistry, Organic*

Graham, Hugh, D.Sc. Reader.

*Classics*

[(Greek) Prof.]

Sinclair, T. A., M.A. Camb.  
 Henry, R. M., M.A. R.U.I., Litt.D.  
 Dub. (Latin) Prof.  
 Boyd, M., B.A. Jr. Lectr.

*Commerce*

Meredith, H. O., O.B.E., M.A.  
 Camb., M.Com. Manc.  
 Dean of Fac., Lectr. in  
 C. and Prof. of Econ.

Recognized Teachers in the  
 Munic. Coll. of Tech. :

Dodd, F. T. Lloyd, M.A., D.Sc.  
 Prof.  
 Montgomery, J. K., B.Com.Sc.  
 (Accounting).  
 Wray, D. C., LL.D. (Coml. Law).  
 Dunne, T. J., B.Com.Sc. (Econ.,  
 Geog., and Business Methods).  
 Sueyras, M. (Spanish).

*Dentistry, v. infra*

*Economics, v. Agric. Econ.,  
 Comm., and Hist., Economic*

*Education*

M'Callister, W. J., M.A., B.Sc.,  
 Ph.D. Prof.  
 Cairns, Elizabeth S. A., M.Sc.  
 Asst.

*Engineering, Civil*

Hummel, F. H., M.Sc. Birm. Prof.  
 Finnan, E. J., M.Sc. Lectr.

*English Language*

Belfour, A. O., M.A. Ox. Reader.

*English Literature*

Baxter, F. W., M.A. Ox. Prof.  
 White, H. M. O., M.A. Lectr.  
 Curgenven, J. P., M.A. Ox.  
 Jr. Lectr.

*French and Romance Philology*

Savory, D. L., M.A. Ox., O.A.,  
 O.I.P. Prof.  
 Godin, H. J. G., B.A. Lond. Asst.  
 Bodier, Madeleine A., L. ès L.  
 Asst.

*French, Mediæval*

Arnold, I. D. O., D. de l'U. Stras.  
 Lectr.

*Geography*

Evans, E. E., M.A. Lectr.

*Geology*

Charlesworth, J. K., D.Sc. Leeds,  
 Ph.D. Bres. Prof.  
 Anderson, J. G. C., M.A., B.Sc.,  
 Ph.D. Asst.

*German*

Waterhouse, G., M.A. Camb.,  
 Litt.D. Dub. Prof.  
 Davies, H., M.A. Asst.

*History*

[Prof.]

Todd, J. E., M.A. Ox. and Edin.  
 Moody, T. W., B.A., Ph.D. Lectr.  
 Blake, J. W., M.A. Jr. Lectr.

*History, Ancient, v. Archæol.*

*History, Economic, and Polit. Sc.*  
 Lemberger, J., M.A. Ox. Lectr.

*Law*

Montrose, J. L., LL.B. Lond.  
 Prof.  
 Newark, F. H., M.A., B.C.L. Ox.  
 Lectr.  
 McKean, E. J., M.A., K.C.  
 Special Lectr.

*Logic and Metaphysics*

Macbeath, A., M.A. Glas. Prof.  
 McCracken, D. J., M.A., Ph.D.  
 Jr. Lectr.

*Mathematics*

McCrea, W. H., M.A., Ph.D. Camb.  
 Prof.  
 Cooper, R., M.A., Ph.D. Lectr.  
 Gillis, J., B.A., Ph.D. Camb. Asst.

*Music*

Brennan, C. J., Mus.Bac. Lectr.

*Philosophy, Moral, and History of Philos.*

de Selincourt, O., M.A. Ox. Lectr.

*Philosophy, Scholastic*

Ryan, Rev. A. H., B.A., D.D.,  
Ph.D. Lectr.

*Physics, Experimental*

Emeléus, K. G., M.A., Ph.D. Camb.  
Prof.

Sloane, R. H., D.Sc. Jr. Lectr.  
M'Neill, D. B., M.Sc., Ph.D. Demr.

*Physics, Mathematical*

Massey, H. S. W., M.Sc. Melb.,  
Ph.D. Camb. Lectr.  
Buckingham, R. A., B.A. Asst.

*Physiology*

Barcroft, H., M.A., M.D. Camb.  
Dunville Prof.  
Pyper, J. G., M.B. Demr.  
Collier, H. O. J., B.A. Demr.  
Rankin, J. C., M.D. Hon. Demr.

*Spanish*

Llubera, I. G., M.A., D.Litt. Mad.  
Prof.

*Technology, v. infra**Zoology*

Flynn, T. T., D.Sc. Prof.  
Williams, G., M.Sc. Jr. Lectr.  
Needham, A. E., B.A., B.Sc.  
Demr.

**Agriculture***Agr. Botany and Plant Diseases*

Mercer, S. P., B.Sc. (Dean of Fac.)  
Prof.  
Muskett, A. E., M.Sc., A.R.C.S.  
Lectr.  
Seaton, I. W., B.Sc.  
(Plant Genetics) Lectr.  
Cairns, H., B.Sc., M.Agr. Jr. Lectr.  
Wilson, E. V. B., B.Sc. Jr. Lectr.  
Linehan, P. A., M.Agr. Asst.

*Agr. Chemistry*

Baskett, R. G., M.Sc. Prof.  
Dickinson, F., B.Sc. Lectr.  
Houston, J., D.Sc. Jr. Lectr.  
Baird, J. C., B.Sc., B.Agr.  
Jr. Lectr.  
Common, R. H., B.Sc., M.Agr.,  
Ph.D. Jr. Lectr.  
Prentice, J. H., B.Sc., B.Agr.  
Asst.

*Agr. Economics*

Morris, G. I., B.A. Ox. Lectr.

*Agr. Zoology*

Chamberlain, R., B.Sc. Lectr.

*Crop and Animal Husbandry*

Morrison, J., B.Sc. Aberd. Lectr.  
Hale, R. W., B.Sc. Asst.

*Dairy Bacteriology*

Clerkin, P., B.Sc., B.Agr.Sc.  
Lectr.  
Knowles, N. R., M.Sc. Asst.

*Veterinary Science*

Lamont, H. G., M.Sc., M.R.C.V.S.  
Lectr.  
Kerr, W. R., M.R.C.V.S. Jr. Lectr.  
Shanks, P. L., M.R.C.V.S. Asst.  
Foggie, A., M.R.C.V.S. Asst.

**Medicine**

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Bacteriology*

Graham, N. C., M.C., M.B., B.Ch.,  
B.A.O., D.P.H.  
"J. C. White" Lectr.  
Bartley, Eileen O., M.D., D.P.H.  
Jr. Lectr.

*Hygiene, v. Pub. Health and San. Science**Infant Hygiene and Diseases of Children*

Allen, F. M. B., M.D., M.R.C.P.  
Lectr.



*Materia Med. and Therapeutics*  
 Lewis, J. T., B.Sc., M.D., F.R.C.P.  
 Lectr.

*Medical Jurisprudence*  
 The Prof. of Pathology Lectr.

*Medicine*  
 Thomson, W. W. D., B.A. R.U.I.,  
 B.Sc., M.D., D.P.H., F.R.C.P.  
 Prof.  
 Strain, R. W. M., B.Sc., M.D.  
 Asst.

2 Clinical Lectrs.

*Medicine, Psychological*  
 Graham, N. B., M.C., B.A. R.U.I.,  
 M.B., Ch.B., B.A.O., D.P.M.  
 Camb. Lectr.

*Midwifery and Gynæcology*  
 Lowry, C. G., M.D. R.U.I.,  
 F.R.C.S.I. Prof.  
 MacAfee, C. H. G., M.B., B.Ch.,  
 B.A.O., F.R.C.S. Eng. and I.,  
 F.C.O.G. Lectr.  
 McClure, H. I., M.B., B.Ch.,  
 B.A.O., F.R.C.S. Ed. Lectr.  
 Browne, Doris, B.Sc., M.B.,  
 F.R.C.S. Tutor.

1 Clinical Lectr.

*Ophthalmology*  
 Wheeler, J. R., M.B., B.Ch.,  
 B.A.O., D.L.O., D.O.M.S.,  
 F.R.C.S.E. Lectr.

2 Clinical Lectrs.

*Pathology*  
 Biggart, J. H., D.Sc., M.D.  
 Musgrave Prof.  
 Fisher, J. A., M.D. Demr.  
 Wilson, W. M'C., B.Sc., M.D.  
 Demr.

*Pharmacology*  
 Mayrs, E. B. C., M.D., D.P.H.  
 Hall, Reginald, M.B., B.Ch.,  
 B.A.O. Asst.

*Public Health*  
 Wilson, W. J., B.A., M.D., B.A.O.  
 R.U.I., D.P.H. Camb., D.Sc.  
 Prof.

Thomson, C. S., M.D. Glas.,  
 D.P.H. Durh., M.R.C.P. Ed.  
 (Administration) Lectr.  
 Blair, E. Maude McV., M.Sc.,  
 Ph.D. Asst.

*Sanitary Science*  
 Wilson, Prof. W. J. Prof.

*Surgery*  
 Crymble, P. T., M.B., Ch.B.,  
 B.A.O. R.U.I., F.R.C.S. Prof.  
 Loughridge, J. S., M.D., F.R.C.S.  
 Asst.

2 Clinical Lectrs.

*Surgery, Oper., and Applied  
 Anat.*  
 Malcolm, H. P., M.C., M.Ch. Lectr.

*Vaccination*  
 Armstrong, S. R., O.B.E., M.B.,  
 B.Ch., B.A.O. Teacher.

*Dentistry*  
 Hunter, W. M., L.D.S. Edin  
 (Metallurgy) Lectr  
 Elwood, H., L.D.S. Edin. and  
 Penn. (Mechanics) Lectr.  
 Swan, W. M., L.D.S. R.C.S. Eng.  
 (Surgery) Lectr.  
 McKeag, H. T. A., B.A., B.D.S.  
 Dub. (Orthod.) Lectr.  
 Geddes, S., M.B., B.Ch., B.A.O.  
 (Anæsthetics) Lectr.  
 Beath, R. M., B.A. R.U.I., M.B.,  
 B.S. Lond., M.B., B.Ch.,  
 B.A.O. (Radiol.) Lectr.  
 Lyons, J., L.D.S.  
 (Mat. Med.) Lectr.

*Technology*  
 (v. also Agr. and Engin., Civil)  
 Extra-Mural Staff (Hon.), being  
 Profs. and Lectrs. at the  
 Munic. Coll. of Tech.

*Architecture*  
 Beaumont, I., A.R.C.A. Prof.  
*Building Construction*  
 Hampshire, T. R. Lectr.

<i>Chemical Technology</i>		<i>Mechanical Engineering</i>	
Wren, H., M.A., D.Sc., Ph.D. Prof.		Smith, J. H., D.Sc., A.R.C.S. Prof.	
Still, C. J., M.Sc., Ph.D., A.I.C.		Warnock, F. V., B.Sc., Ph.D.,	
	Lectr.	A.R.C.S.	Lectr.
Hughes, K. R., B.A.	Lectr.		
Porter, J. W., A.R.C.S.I.	Lectr.	<i>Pharmacy and Pharmacognosy</i>	
<i>Electrical Engineering and Physics</i>		Young, C. W., Ph.C.	Lectr.
Burns, P. L., B.Sc. (Elec. E.) Prof.		<i>Textile Industries</i>	
Allen, T. P., M.Sc.	Lectr.	.....	Prof.
Crowley, T. A., B.Sc.	Lectr.		
Davies, A. L., M.Sc.	Lectr.	<i>Extra-mural Studies</i>	
<i>Mathematics</i>		A. J. Allway, M.A. Sheff.	
Murphy, J. J. F., M.Sc. Lond.		Lectr. and Director.	
	Lectr.		

## RECOGNIZED COLLEGES AND TEACHERS

COLLEGE OF TECHNOLOGY, BELFAST, *v. supra*—Commerce and Tech. The complete course for the B.Sc. in Engineering, Textile Technology, Architecture, Naval Architecture, Pharmaceutics, Chemical Technology, may be taken at this college.

THE PRESBYTERIAN COLLEGE, BELFAST. The complete course for the B.D. may be taken at this college. Dean, Prof. T. A. Sinclair.

## GENERAL INFORMATION

Queen's College, incorporated in 1849, was dissolved in 1909 on the constitution of the Queen's University of Belfast.

LIBRARY, 150,000 vols. INSTITUTE OF PATHOLOGY: Pathol. and Bacteriol. MUSEUMS: Class. Archæol., Nat. Hist., Medical, Materia Medica. LABORATORIES: Chemistry ("Donald Currie"), Engineering ("Harland"), Physiology ("Jaffé"), Bio-Chemistry and Bacteriology ("White"), Physics, Anat., Bot., Geol., Pharm., Zool., Agric. HOSPITALS available for Clinics: 3 general, 10 special (Fever, Maternity, Women, Children, Ophth., Eye, Ear and Throat, Consumption, Lunacy, Skin).

FACULTIES. (1) Arts (including Music), (2) Science (including Civil Engin.), (3) Law, (4) Medicine (including Dentistry), (5) Commerce, (6) Applied Science and Technology, (7) Agriculture, (8) Theology. Deans of Faculties: Profs. (1) G. Waterhouse, (2) T. T. Flynn, (3) J. L. Montrose, (4) W. J. Wilson, (5) H. O. Meredith, (6) F. H. Hummel, (7) S. P. Mercer, (8) T. A. Sinclair.

ADMISSION. See Appendix I.

DEGREE COURSES. 3 yrs.—B.A., B.Sc., B.Sc. in Engin., Pharmaceutics, or Textile Tech., LL.B., B.Com.Sc.; 4 yrs.—B.Agr., B.D.S.; 5 yrs. (of which 2 may be in other approved Univs. or Med. Schools)—M.B., B.Ch., B.A.O.; 2 yrs.—LL.B. course and B.D. course for graduates of this or some other approved Univ.

The courses in Elec. and Mech. Engin. are taken in the College of Technology. 3 yrs.' day or 5 yrs.' evening classes in the C.T. qualify for B.Sc. in Tech. 3 yrs.' day or 5 yrs.' evening classes in the C.T. qualify for the B.Com.Sc. Evening classes in a subject do not qualify for the B.Sc. or B.Com.Sc. unless the candidate has concurrent day-time employment in some technical or commercial branch of the same subject.

*Diplomas.* Educn. (1 or 2 yrs.); Higher Dipl. in Educn. (for grads.), 1 yr.; Public Health (for grads. in Med.), 2 yrs.; Lic. in Dent. Surg., 4 yrs.; Dipl. in Psych. Med. (for grads. in Med.), 1 yr.

**HIGHER DEGREES.** The M.A. may be taken by a B.A. 1 yr. after graduation (examn. or thesis or independent research). The (1) D.Lit. and (2) LL.D. are conferred on grads. of this Univ. distinguished in (1) letters, or in literary, philos., or hist. research, or (2) Law, or in legal or hist. research; they may also be obtained by thesis or published works. The M.Sc. is open to a B.Sc. of the Univ. and grads. of other Univs. holding a degree of similar rank not less than 1 yr. after graduation (thesis or independent research). The D.Sc. is open to grads. of this Univ. 3 yrs. after graduation in any faculty. It is conferred for research or scientific work in relation to Science pure or applied, or for distinction in Science, Engin., or other practical application of Science. The M.D., M.Ch., and M.A.O. are open to grads. in Med. of 3 yrs.' (if also grads. in Arts or Science, 2 yrs.' standing) by examn. or thesis. The M.Agr. may be conferred on a B.Agr. of the Univ. or on graduates of other Univs. who hold equivalent degrees after 2 yrs. for a thesis or independent research. The D.D. is open to grads. in Divinity of the Univ. of at least 6 yrs.' standing. As regards Ph.D. *see* p. 13.

**FEES.** Enrolment (annual), £3 : 10s. Class fees, annual (inclusive)—Arts, 11 gs.; Engineering, 21 gs.; B.Com.Sc., 11 gs.; Dipl. Educn. (2 yrs.), 12 gs.; M.B., B.Ch., 25 gs.; B.Sc. or B.Agr., 22 gs.

**SCHOLARSHIPS, ETC., FOR GRADUATES OF THE UNIV.** Studentships of £50 : 5 in Arts, which may be raised by £25 and continued for a 2nd yr.; 4 in Science. Special grants to Med. graduates for original research or clin. study. Mackay Wilson Travelling Med. Schol'p, £100. Musgrave Studentships in Path., Physiol., Physics, Biol., and Chem., v. App. II. 17. Four other Studentships of the aggregate annual value of £330.

**RESIDENCE.** Queen's Chambers (for men students), board and residence £14 per term. Women's Hostel, board and residence per annum about £45. Board and lodging obtainable in the town from about 25s. a week upwards.

**ASSOCIATIONS.** A Queen's Univ. Assocn. has been formed, Secs., Major Geo. Thomson, D.S.O., Parliament Buildings, Belfast, and Prof. W. B. Morton, Glencarse, Notting Hill, Belfast.

There is also a Queen's University Club which meets in London. Secy., R. L. Rea, M.D., F.R.C.S., 101 Harley St., London, W.

**RECOGNITION OF OTHER UNIVS.** Students from other approved Univs. may apply for exemption from a year's attendance for first degree, attendance and examn. in some of the subjects for first degrees in Arts and Science, in consideration of equivalent courses and examns. elsewhere.

**UNIVERSITY EXTENSION** lectures by members of the Univ. Staff are given in Belfast and other towns.

**PUBLICATIONS.** *Calendar* (Oct.), 2s.; Students' mag., *The Northman*.

## THE YEAR 1936-37

**BENEFACTIONS.** Alpha Club, Travelling scholarship for women students, £40. Bayer Products, Ltd., post-graduate scholarship in the Dept. of Agricultural Botany, £250. Belfast Assn. of Engineers, prizes for students of Engineering, £5. Guild of the Univ., for new lighting in Entrance Hall, £100; for pictures and other equipment in Queen's Chambers, £100. Mrs. R. R. Leatham, in memory of her husband, Dr. Robert R. Leatham, Travelling scholarship for graduates in Medicine. The Rockefeller Foundation, £200 towards cost of a photomicrometer. Mr. Stanley F. Wright, to erect in the Entrance Hall a window in memory of past Queensmen and Queenswomen, £600.

**NEW POSTS.** Lectureships in Midwifery and Gynæcology. Assistantship in Economics.

**PUBLIC LECTURES GIVEN AT THE UNIVERSITY.** Prof. E. de Selincourt (Lectr. in Fine Arts), 4 lectures on "The Art of Prose in the 17th Century." Prof. W. H. McCrea (Inaugural Lecture), "Mathematics and Cosmology." Prof. E. V. Appleton, "The State of the Higher Atmosphere." Prof. P. Bosch Gimpera, "Peoples of Spain in Pre-Roman Times." Prof. I. G. Llubera, "Goya." Prof. A. Macbeath, "The Making of the Modern Mind."

**RESIGNATIONS.** J. A. Coutts (Law), on apptment. as Lectr. in Jurisprudence in the Univ. of Dublin. D. A. E. Harkness (Agricultural Econ.), on apptment. as Asst. Secretary to Ministry of Agriculture, Northern Ireland.

**RETIREMENTS.** Prof. R. J. Johnstone (Gynæcol.). J. A. Craig (Ophthalmol.).

**DEATHS.** Emeritus Prof. W. St. C. Symmers (Pathol.). J. H. Totton (Public Health Chem.).

**HONORARY DEGREES.** Conferred at ordinary summer graduation ceremony and at special graduation ceremony held in connexion with the visit of the British Medical Association to Belfast in July. *D.D.*—Rt. Rev. John Waddell, Moderator of the Presbyterian General Assembly in Ireland. *D.Litt.*—Prof. J. W. Mackail, F.B.A., Former President of the British Academy. *LL.D.*—Dr. George C. Anderson, Medical Secretary of British Medical Assn. Rt. Hon. Senator H. B. W. Armstrong. Sir E. Farquhar Buzzard, Prof. of Medicine, Oxford. Rt. Hon. Viscount Charlemont, Minister of Education, Northern Ireland. Dr. H. Morley Fletcher, Consulting Physician, St. Bartholemew's Hospital. Dr. E. W. H. Groves, Emeritus Prof. of Surgery, Bristol. Rt. Hon. Viscount Hailsham, Lord Chancellor. Major-Genl. J. W. West, Consulting Surgeon to the British Army. *D.Sc.*—Dr. S. P. Bedson, F.R.S., Prof. of Bacteriol., London. Dr. Arthur Felix, distinguished research worker at the Lister Institute. Prof. W. A. Osborne, Dean of the Fac. of Medicine, Melbourne.

**STUDENTS.** Full-time: 1312, including 33 graduates. Part-time: 256, including 59 graduates.

**DEGREES.** B.D., 1; B.A., 93; M.A., 6; LL.B., 6; B.Sc., 44; M.Sc., 10; D.Sc., 2; M.B., 73; M.D., 14; M.Ch., 1; B.Com.Sc., 10; B.Agr., 7; M.Agr., 1; L.D.S., 9; Ph.D., 5; D.P.H., 12; Dip. in Ed., 15; H.Dip. in Ed., 12.

# UNIVERSITY OF DUBLIN, TRINITY COLLEGE

Founded 1592

CHANCELLOR—The Rt. Hon. THE EARL OF IVEAGH, C.B., C.M.G., LL.D.

VICE-CHANCELLOR—The Rt. Hon. Sir THOMAS F. MOLONY, Bart., LL.D.

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR); The Hon. Mr. JUSTICE GERALD FITZGIBBON, LL.D.

PROVOST—W. E. THRIFT, M.A., Sc.D.

LIBRARIAN—J. G. SMYLY, M.A., Litt.D.

REGISTRAR—E. H. ALTON, M.A., Litt.D.

LADY REGISTRAR—CHRISTABEL F. GODFREY, M.A.

Telephone : Registrar—Dublin 44499.

## SENIOR FELLOWS OF THE COLLEGE—

Russell, R., M.A., *Bursar.*

Fry, M. W. J., M.A., *Sr. Lectr. and Catechist.*

Smyly, J. G., M.A., Litt.D.,  
*Librarian and Senior Dean.*

Goligher, W. A., M.A., Litt.D.,  
*Vice-Provost.*

Fraser, J., M.A., *Auditor.*

Alton, E. H., M.A., Litt.D.,  
Dott.U. Padua, *Registrar.*

Gwynn, Rev. R. M., M.A., B.D.,  
*Sr. Proctor.*

## JUNIOR FELLOWS OF THE COLLEGE—

\*†Tate, Sir Robert W., K.B.E.,  
M.A., Public Orator.

\*†Thrift, H., M.A.

\*†Luce, Rev. A. A., M.A., D.D.

\*†Johnston, J., M.A.

\*†Henry, J. M., M.A.

\*†Godfrey, F. La T., M.A.  
Rowe, C. H., M.A., M.Sc. N.U.I.  
Fearon, W. R., M.A., Sc.D.,  
M.B., F.I.C.

Starkie, W. F., M.A., Litt.D.,  
D.Lit. Hartford.

†Bailey, K. C., M.A., Sc.D.,  
Litt.D., D. de l'U. Toulouse,  
*Jr. Dean.*

Ditchburn, R. W., M.A., B.Sc.,  
Ph.D.

\*†Parke, H. W., M.A., Litt.D.

M'Connell, A. J., M.A., M.Sc.,  
D. d'U. Rome, Sc.D.

\*†Duncan, G. A., M.A., LL.B.

\*†Broderick, T. S., M.A.

†Walton, E. T. S., M.A., Sc.D.,  
Ph.D.

†Stanford, W. B., M.A., *Jr.*  
*Proctor.*

\*Bell, J., M.A., Sc.D., M.D.

\* Tutor Fellows.

† Honor Lecturers for 1937-38.

## TEACHING STAFF

- Anatomy, Human, and Embryol.*,  
v. also Zool.  
Jamieson, J. Kay, M.B., C.M.  
Edin., LL.D. Leeds Prof.  
Inkster, R. G., M.D. Chief Asst.  
Henry, R. F. J., M.B., F.R.C.S.I.  
(Applied Anat.) Lectr.
- Anglo-Saxon*  
Liddell, M. F., M.A., Ph.D. Lectr.
- Art, History of* [Hon. Prof.  
Bodkin, T., D.Litt. N.U.I., Litt.D.
- Astronomy*  
Royal Astronomer of Ireland  
(suspended) Prof.  
..... Asst.
- Biochemistry and Biophysics*, v.  
Medicine, *infra*
- Botany and Plant Biol.*  
Dixon, H. H., Sc.D., F.R.S. Prof.  
Ballard, L. A. T., Ph.D. Camb.  
Asst.
- Celtic Languages*, v. also Irish  
Knott, Eleanor, M.A. Lectr.
- Chemistry* [Prof.  
Werner, E. A., M.A., Sc.D., F.I.C.  
Ramsden, W. C., M.A. Sr. Asst.  
Bailey, K. C., M.A., Sc.D., Litt.D.,  
F.I.C.  
(Physical Chem.) Prof.
- Classical Archæol.*  
Parke, H. W., M.A., Litt.D.  
Louis Claude Purser  
Lectr.
- Classics*  
Goligher, W. A., M.A., Litt.D.  
(Greek) Regius Prof.  
Alton, E. H., M.A., Litt.D., Dott.  
U. Padua (Latin) Prof.  
Tate, Sir R. W., K.B.E., M.A.  
Camb. and Dub. (Classical  
Composition) Lectr.  
The Tutorial Staff Lectrs,
- Commerce*  
Lectrs. :  
Johnston, J., M.A. (Econ.)  
Duncan, G. A., M.A. (Econ.)  
Maxwell, Constantia E., M.A.,  
Litt.D. (Econ. Hist.).  
Freeman, T. W., M.A. Leeds  
(Comm. Geog.).  
Butler, W. B., M.A. (Accounting).  
Beere, Thekla J., M.A., LL.B.  
(Statist. Method).  
Magrath, C. R. R., M.A. (Bus  
Organ., Banking, Foreign  
Trade).  
Moran, Frances E., LL.D. (Comm.  
Law).  
Corrigan, T. H. (Insurance).  
Ingram, J. (Transport).
- Dentistry*, v. *infra*
- Divinity*, v. Theol. *infra*
- Economics*, v. Polit. Econ. and  
Commerce
- Education*  
Fynne, R. J., M.A. Dub. and  
Lond. Prof.  
Freeman, T. W., M.A. Leeds Lectr.  
Auchmuty, J. J., M.A., Ph.D.  
(Hist. of E.) Lectr.  
Little, Anita C., M.A. Asst.  
Hickson, W. S. E., M.A., M.Sc.  
Asst.
- Engineering, Civil*  
Purser, J., M.Sc. Birm., M.A.,  
M.A.I. Prof.  
Cotter, J. R., M.A. Lectr.  
Jackson, J. T., M.A. Asst.  
M'Cormick, F. R. A., M.A.,  
A.R.C.S.I. Asst.
- Engineering, Electr.*  
Kennard, F. E., B.Sc. Lond.,  
M.I.E.E. (Practice of E. Eng.)  
Lectr.  
O'Brien, Col. Eoghan, D.S.O.,  
B.Sc. Leeds (Railway Trac-  
tion) Lectr.

*Engineering, Harbour*

Griffith, Sir J. P., M.A.I.

Hon. Prof

*Engineering, Sanitary, v. Public Health**English Literature*Trench, W. Fitz J., M.A. Camb.  
and Dub., Litt.D. Prof.

French, R. B. D., M.A. Lectr.

*French*Rudmose-Brown, T. B., M.A. Dub.  
and Aberd., Litt.D., D. de  
l'U. Grenoble Prof.Skeffington, O. L. S., M.A., Ph.D.  
Lectr.

MacCarthy, Ethna M., M.A. Asst.

*Geography*

Freeman, T. W., M.A. Leeds Lectr.

*Geology and Mineralogy*

Smyth, L. B., M.A., Sc.D. Prof.

Mitchell, G. F., M.A., M.Sc. Asst.

*Geophysics*

Poole, J. H. J., M.A., Sc.D. Prof.

*German*Liddell, M. F., M.A. Dub. and  
Edin., Ph.D. Birm. Prof.*Hebrew, v. infra Oriental Langs.**History, Ancient*Parke, H. W., M.A. Dub. and Ox.,  
Litt.D. Prof.*History, Ecclesiastical, v. Theol. infra**History, Indian*

Hart, Lt.-Col. E. G., M.A. Reader.

*History, Modern, v. also Oratory and Hist.*Curtis, Prof. E., M.A. Dub. and  
Ox., Litt.D. Prof.Phillips, W. A., M.A. Dub. and  
Ox., Litt.D. Lecky Prof.Maxwell, Constantia E., M.A.,  
Litt.D. Lectr.Griffith, Margaret C., B.A., B.Litt.  
Ox., M.A. Lectr.*Irish*

[Prof.

O'Toole, E., M.A. Dub. and N.U.I.

Beaumont, J. N., M.A. Asst.

*Italian*

[Lectr.

Tate, Sir R. W., K.B.E., M.A.

Starkie, W. F., Litt.D. (Ital. Lit.)  
Lectr.*Law, v. infra**Mathematics*

Rowe, C. H., M.A., M.Sc. N.U.I.

Erasmus Smith's Prof.

Broderick, T. S., M.A. Dub. and  
N.U.I. Donegal Lectr.

The Tutorial Staff Lectrs.

*Medicine, v. infra**Music*

[Prof.

Hewson, G. H. P., M.A., Mus.D.

*Oratory and Hist., v. also Hist., Mod.*Curtis, E., M.A. Dub. and Ox.,  
Litt.D. Erasmus Smith's Prof.*Oriental Langs., v. infra**Philosophy*Luce, Rev. Canon A. A., M.A.,  
D.D. (Moral P.) Prof.Hartford, Rev. R. R., M.A., B.D.  
(Ment. and Moral Sci.)

Honor Lectr.

Furlong, E. J. J., B.A. Lectr.

Godfrey, F. La T., M.A. (Hist. of  
P.) Lectr.

The Tutorial Staff Lectrs.

*Physics*M'Connell, A. J., M.A., M.Sc.,  
Sc.D., Dott. U. Rome (Nat.  
Philos.) Prof.Ditchburn, R. W., M.A. Dub. and  
Camb., B.Sc. Liv., Ph.D.  
Camb. (Nat. and Exper.  
Philos.)

Erasmus Smith's Prof.

Thrift, H., M.A. (Exper. Phys.)  
Lectr.Poole, J. H. J., M.A., B.A.I., Sc.D.  
(Exper. Phys.) Lectr.

*Physiology*

Torrens, D. S., M.A., M.B.

King's Prof. Insts. of Med.

Blackham, G. C., M.B. Asst.

Adrian, E. D., M.D., LL.D., D.Sc.,  
F.R.S.

John Mallet Purser Lectr.

*Political Economy*, v. also Comm.

Duncan, G. A., M.A., LL.B. Prof.

Armstrong, Olive G., M.A. (Pol.  
Sci.) Lectr.

*Provençal*

Rudmose-Brown, T. B., M.A. Dub.

and Aberd., Litt.D., D. de

l'U. Grenoble Lectr.

*Spanish*

Starkie, W. F., M.A., Litt.D. Prof.

*Theology*, v. *infra**Zoology and Compar. Anat.*

Gatenby, J. B., B.Sc., D.Phil. Ox.,

D.Sc. Lond., M.A., Ph.D. Prof.

Macdougald, T. J., Ph.D. Asst.

**Law**

Brown, S. L., M.A. Belf., K.C.

Reg. Prof. of Laws.

Moran, Frances E., M.A., LL.D.

Prof. of Laws.

*Indian Law*

Duncan, G. A., M.A., LL.B. Lectr.

*Jurisprudence, General*

Coutts, J. A., M.A., LL.B. Camb.

Lectr.

*Penal Legislation, Const. and*

*Crim. L., and L. of Evid.*

Baker, J., M.A., LL.B., Ph.D.

Reid Prof.

*Roman Law*

M'Kenna, C. B., LL.D. Lectr.

**Medicine (Physic)**

(for subjects of the first 2 yrs.—

Anat., etc., v. *supra*)

Moorhead, T. G., LL.D. Belf.,

M.D., D.P.H., L.M.,

F.R.C.P.I.

Reg. Prof. of Physic.

Synge, V. M., M.D.

(Practice of Med.) King's Prof.

*Anatomy and Chirurgery*

Jamieson, J. K., M.B., C.M. Edin.

LL.D. Leeds Prof.

Inkster, R. G., M.D. Edin.

Chief Asst. and Univ.

Anatomist.

*Anatomy, Applied*

Henry, R. F. J., M.B. Lectr.

*Anæsthetics*

Kirkpatrick, T. P. C., D.Litt.

N.U.I., Litt.D., M.D.,

F.R.C.P.I. Lectr.

*Bacteriology and Preventive Med.*

Bigger, J. W., Sc.D., M.D., D.P.H.,

F.R.C.P.I. Prof.

Gillespie, W. A., M.B. Asst.

Booth, Emily M., M.D. Asst.

*Biochemistry*

[Prof.

Fearon, W. R., M.A., M.B., Sc.D.

*Biophysics*

[Lectr.

Bell, J., M.A., M.D., Sc.D., F.I.C.

*History of Med.*

Kirkpatrick, T. P. C., D.Litt.

N.U.I., Litt.D., M.D.,

F.R.C.P.I. Hon. Prof.

*Hygiene*

Bigger, J. W., Sc.D., M.D., D.P.H.,

F.R.C.P.I. Lectr.

*Laryngology and Otology*

Woods, Sir Robert H., M.B.,

M.Ch. Hon. Prof.

*Materia Medica and Pharmacy*

Rowlette, R. J., M.D., F.R.C.P.I.

King's Prof.

*Medical Jurisprudence*

Wallace, J. A., B.Sc., M.B. Lectr.

*Midwifery*

Browne, O'D. T. D., M.B.,

F.R.C.P.I. King's Prof.



Seager, P. N. L., M.B., B.Ch. Edin.  
Asst.

*Neurology* [Hon. Prof.

Parker, H. L., M.B., M.Sc. Minn.

*Pathology*

Wigham, J. T., M.D., D.P.H.,  
F.R.C.P.I. Prof.

Mitchell, D. M., M.A., M.B. Asst.

Pringle, S., M.B., M.Ch., F.R.C.S.I.  
(Path. of Bone) Hon. Lectr.

*Public Health*

Lecturers :

Roberts, A. I. N., B.A.I. (San.  
Constrn. and Planning).

Harbison, J. A., M.D. Belf.,  
D.P.H. (San. Law and P.H.  
Administru.).

Bigger, J. W., Sc.D., M.D., D.P.H.,  
F.R.C.P.I. (Vital Stat.).

Ramsden, W. C., M.A. (Chem.)

*Radiology*

Hardman, T. G., M.D. Lectr.

*Surgery*

Ball, Sir Chas. A. K., Bt., M.D.,  
M.Ch., F.R.C.S.I.

Regius Prof.

Pearson, W., M.D., M.Ch. Prof.

Gill, F., M.D. Asst.

*Surgery, Orthopædic*

Haughton, W. S., M.D., M.Ch.  
Hon. Prof.

**Dentistry**

Hogan, J. E., M.A., L.D.S.  
(Dental Surg. and Pathol.)  
Lectr.

Friel, E. S., M.Dent.Sc., Sc.D.  
(Orthodontics) Lectr.

Cockburn, J., M.A., L.D.S. Eng.,  
L.R.C.P. and S.I., D.P.H.,  
F.R.C.P.I.

(Dental Mechanics) Lectr.

Micks, R. H., M.A., M.D.  
(Med. for Dental Students)  
Lectr.

M'Caughey, L. W., M.B.,  
B.Dent.Sc. (Dental Anat.)  
Lectr.

**Oriental Languages**

*Arabic, Persian, and Hindustani*

Hart, Lt.-Col. E. G., M.A. Prof.

*Hebrew*

Weingreen, J., M.A., Ph.D.

Erasmus Smith's Prof.

Gwynn, Rev. R. M., M.A., B.D.  
Asst.

Baker, J., M.A., LL.B., Ph.D.  
Lectr.

*Sanskrit and Compar. Philol.*

Quin, E. G., M.A. Lectr.

**Theology**

v. also Orient. Langs.

*Biblical Greek* [Prof.

Gwynn, Rev. R. M., M.A., B.D.

*Divinity*

Oulton, Rev. J. E. L., M.A., D.D.  
Regius Prof.

Hartford, Rev. R. R., M.A., B.D.  
Abp. King's Prof.

Bateman, Rev. E. M., M.A.  
Wallace Lectr.

Bell, Rev. W., B.A. Belf., B.D.  
Lond., M.A. (Bible) Lectr.

Assts. :

Luce, Rev. Canon A. A., M.A., D.D.

Green, Rev. D. C., M.A., B.D.

Proctor, Rev. W. C. G., B.D.

Young, Rev. E. J., B.D.

Greening, Rev. E. W., B.D.

Jenkins, Rev. R. G. F., M.A.

*Ecclesiastical Hist.*

Jourdan, Rev. Canon G. V., D.D.,  
Litt.D. Prof.

*Pastoral Theology*

Barker, Rev. E. L. B., M.A. Prof.

**Donnellan Lecturer**

1938, R. E. W. Flower, D.Litt.  
Celt., Litt.D., F.B.A.

## ASSOCIATED COLLEGES

MAGEE COLLEGE, LONDONDERRY, for first three years of B.A. course.

CHURCH OF IRELAND TRAINING COLLEGE, KILDARE PLACE, DUBLIN. The two years' course of training for teaching in elementary schools is conducted partly at Trinity College, Dublin, and counts towards the Dublin B.A. subject to the candidate qualifying in Latin and a modern foreign language before proceeding as "Sophister" (3rd year).

## GENERAL INFORMATION

Trinity College was founded and incorporated by Royal Charter in 1592 as "Mater Universitatis," but no other College has been founded, so that "Dublin Univ." and "Trinity College" are practically interchangeable terms. The Corporation of the College was put on its present basis by Letters Patent in 1637. Letters Patent of 1911 transferred the powers of making statutes from the Crown to the Corporation, subject to the consent of a majority of the Fellows and the approval of the Visitors. The general government of the Univ. is in the hands of the Board of Trinity College, which consists of the Provost, Senior Fellows, 2 representatives of Junior Fellows, and 2 representatives of the non-Fellow Profs. The Univ. Council, formed by representatives from the Board and various Faculties and Schools, has the right of nomination to most Professorships, and in conjunction with the Board can make changes in the curriculum, but otherwise has only advisory functions.

The College occupies a large site in the middle of the city, with ample grounds for the athletic clubs.

THE LIBRARY of Trinity College has enjoyed since 1801 the privilege of receiving a copy of every book published in the United Kingdom. It contains over 434,477 printed books, amongst which there is in the Fagel Library a group of early pamphlets relating to the Dutch and English East and West India Companies. The MSS. are over 2000 in number, and include an important collection in Irish. A General Catalogue of the MSS. was published in 1900, and a Revised Catalogue of the Irish MSS. in 1921. A Catalogue of Printed Books in the library in 1872 was published in 1887 and distributed to the world. There is a Lending Library, which includes 6000 vols. bequeathed by the late W. E. H. Lecky; and smaller libraries in the Schools of Mod. Langs., Hist., Med., Maths., Nat. Scs., Geog., and Philol.

MUSEUMS. The scientific museums include Zool. and Comp. Anat., Geol. and Mineral., Surg. and Med., Path., Mat. Med., Anthropom., Engin. Models, Nat. Philos. The Zoological is among the best collection in the country. The series of vertebrate osteology is extensive. Attached Laboratories offer all facilities for research work. The collection of Geological and Mineralogical specimens is also extensive.

LABORATORIES. Anat., Anthrop., Bio-Chem., Bot., Chem., Geol., Histology, Mat. Med., Mech. Engin., Pathology, Physical (Iveagh), Physiol., Zool.

HERBARIUM (rich in plants of N. America, India, S. Africa, and Australia). BOTANIC GARDENS, 8 acres.

The Astronomical Observatory of Trinity College is at Dunsink, 5 miles from the College.

Ample facilities for clinical studies and many appointments for graduates are available in numerous HOSPITALS, including the well-known Rotunda. The Irish High Court is situated within a short distance of the College.

PROFESSIONAL SCHOOLS. Divinity, Law, Physic, Engin., Indian and Home Civil Service, Agric., Forestry, Music, Edn., Comm. Registrars: *Law*—G. A. Duncan, M.A.; *Physic*—G. L. Allen, M.A.; *Engin.*—H. Thrift, M.A.; *Music*—G. H. P. Hewson, Mus.D.; *Civil Service*—E. H. Alton, Litt.D.; *Edn.*—R. J. Fynne, M.A.; *Agric.*—H. Thrift, M.A.; *Comm.*—H. W. Parke, M.A., Litt.D.

ADMISSION. See Appendix I.

DEGREES. Every student must take the B.A. before proceeding to any other degree, except those in music and B.Sc., M.Sc., B.Litt., Ph.D. The course lasts 4 yrs., but it is only necessary to keep 2 out of the 3 terms in each, or 8 in all. It is also possible to complete the course within 3 yrs. from entrance by taking the final examn. of the 1st yr. at the time of entering and keeping all 3 terms of the 2nd yr. However, all students not in a professional school or taking the B.Sc. course are required to attend Arts lectures in every term, unless specially exempted (e.g. those earning their living by teaching). If exempted they are permitted to keep all of their 8 terms by examn. instead of by attendance.

For the first 2 yrs. (Junnr. and Senr. Freshman) all subjects are compulsory: Algebra, Geom., Trig., Mech. or Physics or Chem., Logic, Engl. Essay, Latin, Greek or French or Italian or Spanish or Irish or German. After the examn. ("Little-Go") at the end of the 2nd yr. wide freedom of choice is allowed of subjects for the remaining (Junior and Senr. Sophister) yrs., and exemption from one subject is granted to Law, Engin., Comm., and Div. students. For Med. students there is a specially reduced Arts course throughout.

Pass Arts teaching, mainly given by the Tutor Fellows, is partly of a catechetical nature. Every student must choose one of the Tutor Fellows (see list above) as his Tutor and should apply to him for all information before and after entrance.

The *Honours* B.A.—known as a *Moderatorship*—can be taken in 12 different groups (viz. 1 Math., 2 Class., 3 Ment. and Mor. Sc., 4 Exp. Sc., 5 Nat. Sc., 6 Hist. and Pol. Sc., 7 Mod. Lit., 8 Leg. Sc., 9 Eng. Sc., 10 Celtic, 11 Oriental Lang., 12 Econ. and Pol. Sc.), and undergraduate honours in the same subjects (except Nos. 9 and 11) can be obtained in each academic year and in most subjects in each term. The course lasts four years in the case of Nos. 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, three years in No. 9. Instruction in these Honour courses is given partly by the Profs. and partly by the Tutorial staff.

A B.A. of three years' standing may be admitted M.A. There is no examn. for this, nor is a thesis required.

The B.Litt. is obtained by a thesis, and candidates must have at least one yr.'s standing as B.A. They must also, except by special permission of the Board, be graduates with Honours in Classics, Philosophy, History, Modern, Celtic, or Oriental Languages, Legal Science, or Economics, of Dublin or of an approved univ.

The B.Sc. is obtained by a 4-year course consisting of 12 terms of lectures and 4 examns. In the first two years English, French, German, Mathematics, Physics, and Chemistry are compulsory. In the last two years the student studies 3 subjects chosen from Physics, Chem., Bot., Zool., Physiol., Geol., Anat.

A B.Sc. with hon. is obtained by passing an examn. identical with Moderatorships (see above) in Experimental or Nat. Science.

The B.D. is obtained by an examn. open to all grads. in Arts, the D.D. is open to any B.D., eight years after taking B.A., and is awarded on a thesis or published Theol. work.

The LL.B. course covers 2 yrs.; the M.B., B.Ch., and B.A.O., 5 yrs.;

B.Dent.Sc., 4 yrs. ; B.A.I., 3 yrs. (optional 4th yr. in Elec. and Mech. Engin.) ; Agr.B. or Agr. (Forest) B., 4 yrs., of which 3rd and 4th are taken in Univ. Coll. (N.U.I.) ; B.Comm., 3 yrs. The M.Sc. and Ph.D. (v. p. 13) involve post-graduate study and research for 1 yr. and 2 yrs. respectively.

A candidate for the Sc.D. or Litt.D. must have at least 3 yrs.' standing as B.A., and submit important original work ; for LL.D. must be of M.A. standing—a thesis or a published work is required ; for M.D. must have taken the M.B. degree and be of M.A. standing ; for M.Ch. must be a B.Ch. of 3 yrs.' standing ; for M.A.O., a B.A.O. of 2 yrs.' standing ; a thesis or examn. is required for M.D., an examn. for the M.Ch. or M.A.O. A candidate for M.Dent.Sc. must be a B.Dent.Sc. of 3 yrs.' standing, and pass an examn. ; for M.A.I. must have practised his profession for 3 yrs. after graduating as B.A.I.

The Mus.B. is granted after an exercise or practical test and 2 examns., the Mus.D. after an exercise and examn.

**DIPLOMAS** in Agric., Educn. (Primary and Higher), Econ. and Comm. Knowledge, Elec. Engin., Gynæc. and Obst. (1 yr.'s course), D.P.H., Psych. Med., Geog., Religious Knowledge (women), Social Studies, Hist. of European Painting, Biblical Studies.

*License* in Engineering (first two years of Arts course and complete course in Engineering). *License* in Med., Surg., and Obst. Science.

*Certificate* in Engineering (complete course in Engineering, but without Arts course).

*Testimonium* in Divinity (3 yrs.' course).

**FEES.** Entrance, £15 ; Composition for all Arts and Science Lectures, 20 gs. p.a. (to students admitted to advanced standing the entrance fee is remitted and in most cases some of the half-yearly Arts fees) ; Med. course total (including Hospitals and Degree fees), about £150 ; Dental Sci. total, about £200 ; Engin. (3 yrs.), £50 (minimum), in addition to Arts Tuition fees ; Divinity free for students in Arts, 20 gs. p.a. for others ; Commerce, £47 (if Arts Course is taken), £80 (for extern. students).

Among **SCHOLARSHIPS, PRIZES, ETC., OPEN TO GRADUATES** are: Two studentships of £100 offered at the B.A. degree examn. ; prizes from £50 upwards to selected honour graduates with conditions of study and research attached. Madden Prize Fund £424 p.a. awarded to unsuccessful candidates at Fellowships examn. or for research work or as a *Travelling* Scholarship. *Travelling* Prize, £100 in Medicine or Surgery (3 mos. to be spent abroad). A number of other prizes, etc. (including the National Hist., about £160), are open to graduates under M.A. standing.

**EXCHANGE OF STUDENTS.** One male student from French École Normale received each year in exchange for one from Trinity Coll. ; also one woman student from Belgium. Three students (1 man, 2 women) exchanged similarly for three German students. They give lectures, mainly on conversational French and German, and in return may attend any lectures free of charge and are given free board and lodging.

**RESIDENCE.** The College has accommodation for 320 students. Rent £9 to £20 p.a. for single sets, £14 to £32 for double sets of rooms ; dinner in Hall, 14s. a week. Trinity Hall (*Warden*, Eliz. M. Cunningham, M.A.) accommodates 40 women ; board and residence, £23 : 10s. to £28 : 10s. per term of 10 weeks. There is also a hostel for Divinity students of the Church of Ireland.

**APPOINTMENTS ASSOCIATION** (estab. in 1906). Secy., A. J. Leventhal, M.A., Ph.D.

**PUBLICATIONS.** *Calendar* (Oct.), 4s., includes information as to courses, results of examns., degrees conferred, etc.; special Suppt. (occasional), lists of past honours, benefactors, etc. *Examn. Papers* of the several Honour schools; of the several Professional schools; of Entrance examns. and prizes; and of Pass Arts, are published in pamphlet form at 1s. per set. The final *War List* has been published, price 2s. 6d. *Book of T.C.D.*, 1591-1891, 21s. (Hodges, Figgis & Co., Dublin). *Hermathena* (twice yearly), original papers in Arts subjects. *T.C.D. (Students')*, 3d. weekly.

## THE YEAR 1936-37

**BENEFACTIONS.** The late Mrs. Alice Backhouse, £1000 to found a prize in the School of Engineering. MM. Auscher and Honnorat, an album of water-colours portraying the French Alps. Hon. E. Guinness, X-ray apparatus. Rt. Hon. Sir T. F. Molony, Vice-Chancellor of the Univ., a donation for erection of a tablet in memory of the Rev. Michael Moore, D.D.

**NEW DEVELOPMENTS.** Masters in Dental Science must be Bachelors of at least 3 yrs.' standing. New courses and new regulations (including residence) prescribed for the Higher Diploma in Education.

**PUBLIC LECTURES** were delivered by Sir Arthur Salter, Prof. R. A. Millikan, and Prof. T. Bodkin.

**RESIGNATIONS.** Dr. H. G. Wager (Bot.); Dr. C. H. Adderley (Path.). Dr. E. J. Gwynn resigned the Provostship, and was elected to an Honorary Fellowship.

**DEATH.** Mr. H. S. Macran, Senior Fellow and Prof. (Hist. of Philos.).

**HONORARY DEGREES.** *Litt.D.*—Prof. R. J. Bonner, C. C. Edgar, R. E. W. Flower. *Sc.D.*—Prof. Sir J. Barcroft, Prof. J. S. B. Stopford.

**STUDENTS.** Total number on the College Books under the degree of M.A., June 1937: In Arts: 1317. In addition, 156 Med. Students and 18 Law Students not in Faculty of Arts. Total, 1491 (including 117 graduates). Medicine, total, 460; Eng., 42; Divinity, 143; Commerce, 23; Law, 47; Edn., 44.

**OTHER DEGREES.** B.D., 6; D.D., 1; B.A., 249; M.A., 82; Litt.D., 1; LL.B., 7; LL.D., 2; B.Sc., 10; M.Sc., 8; Sc.D., 2; M.B., B.Ch., B.A.O., 58; M.D., 10; M.A.O., 1; M.Ch., 1; B.A.I. 12; B.A.I. (Elec. et Mech.), 1; B.Comm., 7; Agr.B., 1; Mus.B., 2; Mus.D., 1; Ph.D., 3.

# THE NATIONAL UNIVERSITY OF IRELAND

Founded 1909

VISITOR—H.M. THE KING.

CHANCELLOR—EAMON DE VALERA, T.D., B.A., B.Sc., Ph.D., LL.D.

VICE-CHANCELLOR—(for biennium ending Dec. 31, 1938), DENIS J. COFFEY, LL.D. Dub. and Belf., M.A., M.B., B.Ch., B.A.O., President, University College, Dublin.

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIV. COLLS., CORK AND GALWAY, AND ST. PATRICK'S COLL., MAYNOOTH.

REGISTRAR—ALEX A. MCCARTHY, B.A., 49 Merrion Square, Dublin.

CONSTITUENT COLLEGES. University Colleges, Dublin, Cork and Galway.

RECOGNIZED COLLEGE. St. Patrick's College, Maynooth.

Telephone : Registrar—Dublin 62470

## TEACHING STAFF

Prof. of Catholic Theology—Rev. J. J. Hannon, S.J.

Staffs of the Univ. Colleges, *y. infra*.

Recognized Teachers in approved degree courses in St. Patrick's College, Maynooth (President—Very Rev. J. F. Canon D'Alton, D.D., M.A., D.Litt. *Chemistry*—J. Keane, M.Sc., Ph.D. *Classics*—Rev. J. G. O'Neill, M.A.; Rev. J. Duff, M.A.; Rev. P. J. Hamell, B.A., D.D. *Eastern Langs.*—..... *Education*—Rev. M. A. Brennan, M.A., H.Dip in Ed. *English*—Rev. C. Kevin, M.A.; Rev. J. J. McMackin, M.A., *French and German*—Rev. J. L. Rigal, M.A. *Irish*—Rev. G. O'Nolan, M.A., D.Litt. *Maths. and Math. Physics*—Rev. P. J. Browne, M.A., D.Sc. *Music*—Rev. M. Tracy, B.A., L.Mus. Rome. *Philos., Mental and Moral*—Rev. Cornelius Lucey, M.A., D.D.; Rev. P. Coffey, D.Ph.; Rev. J. Canon O'Neill, D.Ph. *Physics, Expl.*—Rev. P. J. I. McLaughlin, M.Sc. *Welsh*—Rev. G. O'Nolan, M.A., D.Litt.

## GENERAL INFORMATION

The National University of Ireland, with its Constituent Colleges, the University Colleges of Dublin, Cork, and Galway, was founded 1909. For early history, *see Yearbook*, 1929.

FACULTIES. (1) Arts, (2) Philosophy and Sociology, (3) Celtic Studies, (4) Science, (5) Law, (6) Medicine, (7) Engineering and Architecture, (8) Commerce, (9) General Agriculture (Univ. Coll., Dublin, only), (10) Dairy Science (Univ. Coll., Cork, only). Music is included in Arts and Celtic Studies. Classes are held in all Faculties, except (9) and (10), at each of the constituent Colleges, and in 1, 2, 3, and 4 at Maynooth.

ADMISSION. See Appendix I.

DEGREES: B.A., M.A., D.Litt., B.Mus., D.Mus., D.Litt.Celt.; B.Sc., B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc.; LL.B., LL.D.; M.B., B.Ch., B.A.O., M.Ch., M.A.O., M.D., B.Sc. and D.Sc. in Pub. Health; M.Econ.Sc.; D.Econ.Sc.; B.Sc. (Dairying); M.Sc. (Dairying); B.D.S., M.D.S.; B.E., M.E., B.Arch., M.Arch.; B.Comm., M.Comm.; Ph.D.

Course for a First degree in any faculty—at least 9 terms in one of the Constituent Colls. or St. Patrick's Coll., Maynooth.

The M.A., M.Sc., M.Agr.Sc., D.Sc., B.Sc. Pub. Health, M.E., M.Arch., M.Comm., Ph.D., D.Litt. may be conferred on graduates or other students for research under prescribed conditions in the Univ. or in a Constituent Coll. during at least 3 terms for a Master's degree or 6 terms for the Doctorate. The duration prescribed for the course of study and research for the Ph.D. is 9 terms (reducible to 6). See p. 13.

Diplomas are offered in the subjects of Faculties 1, 3, 8, and in several others; certificates in Commercial subjects and in Organ Music. A Higher Diploma in Educn. may be obtained by a graduate of any Univ. of the U.K. or other approved Univ. after a course in one of the Constituent or Recognized Colls. A Diploma in Library Training is available in Univ. Colls., Dublin and Galway. A Diploma in Social Science is obtainable in Univ. Coll., Dublin.

FEES: Matricn., £3. Combined examn. and degree, £9 to £21. Diplomas, £2 to £5.

STUDENTSHIPS, ETC., FOR GRADUATES. Five of £200 each, tenable for 2 yrs. outside Ireland (to which a prize for a further year of Irish Historical Research may be added), open to graduates of the Univ. of not more than 4 yrs.' (one in Medicine, 2 yrs., one in Philosophy, 5 yrs.) standing; a scholarship of £150 in Psychological Medicine; bursaries in Archaeology, Commerce, Engineering, for Phonetic Training for Irish Study, and for Art and Museum Service Training £150, each tenable for 1 yr.; prize of £100 for Irish Historical Research.

APPOINTMENTS COMMITTEE. The Secretary, 86 St. Stephen's Green, Dublin.

PUBLICATION. *Calendar* (December), 2s, post free, 2s. 9d.

## THE YEAR 1936-37

HONORARY DEGREES. *D.Litt*—Miss Maud A. E. Joynt, M.A.; Dr. James F. Kenney; Hugh O'N. Hencken; Carl W. von Sydow; William W. Bishop; Fred N. Robinson. *LL.D.*—His Grace the Most Rev. Finbar Ryan, O.P.

The Senate decided that the M.Sc. Degree (*Honoris Causa*) should be conferred on Fellows of the late Royal College of Science, Ireland, in virtue of their Fellowship, and that the B.Sc. Degree (*Honoris Causa*) should be conferred on Associates of the late Royal College of Science, Ireland, in virtue of their Associateship.

*M.Sc. (Honoris Causa)* 15. *B.Sc. (Honoris Causa)* 229.

TRAVELLING STUDENTSHIPS. Eight in the year 1936-37.

DEGREES (Aug. 1, 1936—July 31, 1937). B.A., 419; M.A., 46; B.Arch., 4; B.Comm., 81; M.Econ.Sc., 2; B.Mus., 1; LL.B., 12; B.Sc., 65; M.Sc., 18; D.Sc., 1; B.E., 41; B.Sc. (Public Health), 12; B.Agr., 8; M.B., B.Ch., B.A.O., 89; M.D., 3; M.Ch., 1; B.D.S., 4; Ph.D., 6.

DIPLOMAS. Dip.Ed., 16; H.Dip.Ed., 233; Dip. Library Training, 9; Dip. Social Service, 10; Dip. Dairy Sci., 99; Dip. Irish Studies, 1; D.P.H., 25.

# UNIVERSITY COLLEGE, DUBLIN

Founded 1909

VISITOR—H.M. THE KING IN COUNCIL.

PRESIDENT—D. J. COFFEY, LL.D. Dub. and Belf., M.A., M.B., B.Ch., B.A.O.

REGISTRAR—Prof. A. W. CONWAY, M.A., R.U.I. and Ox., D.Sc., F.R.S.

SECRETARY AND BURSAR—J. W. BACON, M.A.

LIBRARIAN—J. J. O'NEILL.

Telephone : 52116

## TEACHING STAFF

<i>Accountancy</i>	
O'Brien, G. W., M.A., B.Comm., A.C.A.	Lectr.
<i>Agriculture, v. infra</i>	
<i>Anatomy</i>	
McLoughlin, E. P., B.A., M.D.	Prof.
MacAuley, C. J., M.B., B.Ch., B.A.O., F.R.C.S. Eng.	Asst.
Keenan, E., M.D.	Asst.
<i>Archæology, Celtic</i> [Prof.]	
Macalister, R. A. S., M.A., D.Litt.	
<i>Architecture</i>	
Butler, R. M., M.Arch., F.R.I.B.A., F.R.I.A.I.	Prof.
McDermott, M., B.Arch.	Demr.
Griffith, J. L., B.Arch.	Demr.
<i>Banking and Finance</i>	
Shields, Prof. B. F.	Actg. Lectr.
<i>Botany</i>	
Doyle, Joseph, B.A., D.Sc.	Prof.
La Touche, C. J. P., M.Sc.	Asst.
<i>Chemistry</i>	
Nolan, T. J., B.A., D.Sc.	Prof.
Algar, J., B.A., D.Sc., (Med. C.)	Prof.
Keane, J., M.Sc., Ph.D.	Lectr.
<i>Chemistry, Applied Organic</i>	
*O'Farrelly, A., M.A., F.I.C.	Prof.
<i>Chemistry, Phys. &amp; Metallurgical</i>	
*Leonard, A. G. G., B.Sc., Ph.D., F.R.C.S.I.	Lectr.
<i>Classics</i>	
Tierney, M., M.A. (Greek)	Prof.
Semple, P., M.A. (Latin)	Prof.
Gwynn, Rev. A., S.J., M.A., B.Litt. (Anc. Hist.)	Lectr.
Farrell, E., B.A.	Lectr.
<i>Commerce</i>	
Shields, B. F., M.A., D.Econ.Sc.	Prof.
<i>Dentistry, v. infra</i>	
<i>Economics, v. Pol. Econ.</i>	
<i>Education</i>	
Corcoran, Rev. T., D.Litt.	Prof.
Williams, W. J., M.A.	Lectr.
4 Assts.	
<i>Engineering, Civil</i>	
Purcell, P. F., M.A., M.A.I.	Prof.
Lewis, F. E., B.A., B.E.	Lectr.
<i>Engineering, Elect., v. Physics</i>	
<i>Engineering, Mechanical</i>	
*Taylor, J., M.A., A.R.C.S.I.	Prof.
**Warwick, F. W., B.A., B.E.	Lectr.

\* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

\*\* Demonstrators similarly appointed.



\*\*Cormack, P., M.Sc., F.R.C.S.I.  
Demr.

*English Lang. and Philology*  
..... Prof.

MacSweeney, J. J., M.A. Asst.

*English Literature*  
Hogan, J. J., M.A., B.Litt. Prof.  
MacCarvill, Mrs., M.A. Asst.

*French and Romance Philol.*  
Chauviré, R., D.ès L., D.Litt. Prof.  
Roche, L. P., M.A., D.ès L. Lectr.  
Harnett, Ellen, M.A. Asst.

*Geology*  
Seymour, H. J., B.A., B.Sc. Prof.  
O'Kelly, Kevin H., B.E., B.Sc. Asst.

*German*  
Macken, Mary, M.A. Prof.  
Bowler, Margt., M.A. Asst.

*Hebrew and Aramaic*  
Boylan, Very Rev. Patrick Canon,  
M.A., D.Litt. Prof.

*History* [Prof.  
O'Sullivan, J. M., M.A., Ph.D.  
Donovan, P. F., M.A. Asst.

*History, Early, including  
Mediæval Irish*  
MacNeill, J., B.A., D.Litt. Prof.  
Ryan, Rev. J., M.A. Lectr.

*History, Modern Irish* [Prof.  
Hayden, Mary T., M.A., D.Litt.

*Irish, Early and Mediæval*  
Bergin, O., D.Litt. Wales, B.A.,  
Ph.D. Prof.

*Irish Lang. and Lit., Modern*  
O'Kiely, Cormac, M.A. Prof.  
Hayes, M., M.A. Lectr.  
Delargy, J. H., M.A.  
(Irish Folk-lore) Lectr.

Assistants :

Dillon, M., M.A., Ph.D.  
MacEntee, Mrs., M.A.  
Murphy, H. G. A., M.A.  
O'Lochlainn, C., M.A.  
O'Searcaigh, S., M.A., Ph.D.  
Mulchrone, Kate, M.A., Ph.D.,  
H.Dip. Ed.

*Irish Poetry, Modern*  
O'Farrelly, Agnes, M.A. Prof.

*Italian and Spanish Lang. and  
Lit.*

Degani, Maria A., Dipl. Univ.  
Padua Prof.  
McBride, P. P., B.A. (Italian) Asst.

*Law, v. infra*

*Mathematics*  
Egan, Rev. M. F., M.A. Prof.  
Keating, G., M.Sc. Lectr.  
Gormley, P. G., M.A., Ph.D.  
Jnr. Lectr.  
Timoney, J. R., M.A. Jnr. Lectr.

*Medicine and Surgery, v. infra*

*Music*  
Larchet, J. F., Mus.D. Prof.  
*Music, Irish*  
O'Dwyer, R. Prof.

*Philology, Comp., and Sanskrit*  
Dillon, M., M.A., Ph.D. Lectr.

*Philosophy*

Profs. :  
O'Keeffe, Rev. D., M.A. (Ethics  
and Politics).  
Shine, Rev. J., M.A. (Logic and  
Psychol.).  
Magennis, W., M.A. (Metaphysics).  
Horgan, Rev. J., M.A., D.D.  
Jnr. Lectr.

*Physics and Electrical Engineering*

\*Hackett, F. E. W., M.A., M.Sc.,  
Ph.D. Prof.  
\*Allen, R. G., B.Sc., A.R.C.S.I.  
(Electro-Technol.) Lectr.

\* Profs. and Lectrs. of the former Royal College of Science who have  
accepted equivalent offices in Univ. College, Dublin, and have been appointed  
Profs. and Lectrs. of the N.U.I. in this College.

\*\* Demonstrators similarly appointed.

\*\*O'Callaghan, P., A.R.C.S.I.

Demr.

*Physics, Experimental*

Nolan, J. J., M.A., D.Sc. Prof.

Dowling, J. J., M.A., F.Inst.P.

(Tech. P.) Prof.

Nolan, P. J., D.Sc., Ph.D. Lectr.

*Physics, Mathematical* [Prof.

Conway, A. W., M.A., D.Sc., F.R.S.

Keating, G., M.Sc. Lectr.

*Physiology and Histology*

O'Connor, J. M., B.A., M.D. Prof.

Kane, F., B.Sc., M.D., D.P.H. Asst.

*Polit. Econ. and Nat. Econ.*

O'Brien, G., B.A., D.Litt., B.L.

Prof.

Prendeville, P. L., B.A., M.Comm.

Jnr. Lectr.

*Spanish, v. Italian and Spanish*

*Welsh*

Jones, J. Ll., M.A., B.Litt. Prof.

*Zoology*

Butler, J. B., M.A., M.B., B.Ch.,

B.A.O. Prof.

Kane, Annie (Mrs.), M.Sc. Asst.

*Agriculture*

Drew, J. P., M.Sc., A.R.C.S.I. Prof.

*Agricultural Botany and Bacteriology*

\*Gorman, M. J., A.R.C.S.I. Lectr.

*Agricultural Chemistry*

O'Sullivan, G. F., M.Sc.

Jnr. Lectr.

*Agricultural Zoology*

Carroll, J., B.Agr.Sc. Lectr.

*Animal Nutrition* [Lectr.

Sheehy, E. J., D.Sc., F.R.C.S.I.

*Forestry*

Fitzpatrick, H. M., B.Agr.Sc.

Acting Subst. Lectr.

*Horticulture*

Sherrard, G. O., A.R.C.S.I. Lectr.

*Plant Breeding*

Caffrey, M., A.R.C.S.I. Lectr.

*Plant Pathology*

Murphy, P. A., B.A., D.Sc.,

A.R.C.S.I. Prof.

*Soil Physics*

Gallagher, P. H., D.Sc. Lectr.

7 Research Assts., 6 Assts. and

Demrs.

*Law*

*Constitutional Law, Internat. and*

*Criminal Law* [Prof.

McGilligan, Patrick, M.A., B.L.

*Jurispr. and Roman Law*

Binchy, D. A., M.A., Ph.D. Prof.

*Law of Property and of Common*

*Law*

Ryan, M. J., B.E., B.Sc., LL.B.,

K.C. Prof.

*Medicine*

*Mat. Med. and Therap.*

Dillon, T. W. T., M.B., B.Ch.,

B.A.O. Prof.

*Med. Jurispr.*

McGrath, J., M.Sc., M.B., B.Ch.,

B.A.O. Prof.

*Medicine*

Moore, H. F., M.D., D.Sc. Prof.

Meenan, J. N., M.B., B.Ch.,

B.A.O., D.P.H. (Systemic

Medicine) Prof.

*Midwifery and Gynæc.*

Farnan, R. P., M.B., B.Ch.,

M.A.O. Prof.

O'Kelly, J. J., B.A., M.B., B.Ch.,

M.A.O. (Obstetrics) Lectr.

\* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

\*\* Demonstrators similarly appointed.

White, R., F.R.C.S.I. (Gynæc.).

Lectr.

*Surgery*Barnville, H. L., B.A., M.D., M.Ch.  
Prof.*Ophthalmology*Joyce, R. D., M.R.C.S., L.R.C.P.,  
F.R.C.S.I. Prof.Meade H. S. M.Ch. F.R.C.S.I.  
(Systemic Surg.) Prof.*Pathology and Bacteriology*O'Farrell, T. T., M.D., F.R.C.S.I.,  
D.P.H. Prof.*Dentistry**Pharmacol. and Bio-Chemistry*Conway, E. J., D.Sc., M.B., B.Ch.,  
B.A.O. Prof.Sheridan, E., M.D.S., F.R.C.S.I.  
(D. Surg.) Prof.Potter, J. I., M.D.S. (D. Mech.)  
Prof.*Public Health and Bacteriology*O'Kelly, W. D., D.Sc. (Pub.  
Health), M.D., D.P.H. Prof.Flanagan, L., B.D.S., M.B., B.Ch.,  
B.A.O. (Orthod.) Lectr.

## GENERAL INFORMATION

The College was constituted by Royal Charter in 1909. The LIBRARY, 65,000 vols., includes the books of the late Catholic Univ. and R.U.I., the Palles Law Library (presented by Archbishop Walsh), the Stopford Green (History) Library and the Zimmer Celtic Library. MUSEUM: Ancient History. LABORATORIES include those of the late R.U.I. and of the buildings completed in 1919.

Under the University Education (Agriculture and Dairy Science) Act 1926 of the Irish Free State the functions of the Royal College of Science for Ireland have been transferred to Univ. Coll., Dublin. For the conditions of transfer, see *Yearbook*, 1929.

The LABORATORIES are fitted throughout with all modern appliances. Facilities for technical research in all branches of Chemistry, e.g. extraction of metals, production of metallic alloys, glazes, enamel, glass, pigments, paints, coal-tar derivatives, peat products, synthetic drugs. Engineering Pattern Shop, Foundry, Smithy, Machine Shop; examples of types of engines aggregating 700 H.P. Hydraulics and Hydraulic Machinery Labs. Testing Machines recording up to 100 tons. Elec. Engin. Labs. with D.C. and A.C. machines. Extensive Physics, Agric., and Nat. Sc. equipment.

LIBRARY with 59,000 Scientific and Tech. books, 10,000 pamphlets, numerous maps, etc.

COURSES are provided for the degrees of the N.U.I. in all Faculties.

FEES for tuition, including College fees, annual, in degree courses: Arts or Comm.—£16; Science—£20 to £26: 10s.; Engin.—£20 to £24: 14s.; Law (in addition to Arts)—8 gs.; Med. (including Coll. Hospl.), whole period—£165.

COLLEGE SCHOLARSHIPS, post-graduate in Arts or Science: 5 of £60.

RESIDENCE. Hostels for men and for women. Students are subject to supervision by Deans of Residence.

PUBLICATION. *Calendar*, Nov., 5s.

## THE YEAR 1936-37

PUBLIC LECTURES GIVEN AT THE COLLEGE. M. Per. Jacobsson, Economic Advisor, Bank for International Settlements (Finlay Lecture). Monsieur

André Bellessort, de l'Académie française. Edouard de Moreau, S.J., Docteur en Philosophie et Lettres (Louvain), Membre de la Commission royale d'Histoire. Monsieur Louis Gillet de l'Académie française. Professor Stith Thompson of the University of Indiana, U.S.A.

STUDENTS. Full-time : 1973, including graduates, 204. Part-time : 178 ; certif. music, 16 ; Architecture, 9 ; Law, 71 ; Agri., 41 ; Library Dipl., 16 (graduates) ; Dip. Social Science, 11 ; occasional, 14.

DEGREES OBTAINED. B.A., 226 ; M.A., 31 ; D.Litt., 1 ; B.Comm., 40 ; B.E., 27 ; B.Arch., 4 ; LL.B., 9 ; B.Sc., 31 ; M.Sc., 12 ; D.Sc., 1 ; B.Agr.Sc., 8 ; B.Sc. Public Health, 9 ; M.B., Ch.B., B.A.O., 55 ; M.D., 1 ; M.Ch., 1 ; B.D.S., 3 ; B.Mus., 1 ; Ph.D., 2 ; Dip. Ed., 4 ; H.Dip. Ed., 129 ; Dip. Pub. Health, 19 ; Dip. Libr., 5 ; Dip. Soc. Sc., 7.

# UNIVERSITY COLLEGE, CORK

Founded 1845

VISITOR—H.M. THE KING IN COUNCIL.

PRESIDENT—P. J. MERRIMAN, M.A., LL.D.

REGISTRAR—A. O'RAHILLY, M.A., B.Sc., Ph.D.

SECRETARY AND BURSAR—J. DOWNEY, M.Comm.

LIBRARIAN—T. A. CONROY, M.A.

Telephone : Cork 1371.

## TEACHING STAFF

<i>Accounting and Business Administration</i>	O'Cinnéide, R., M.Sc. (in Irish)	Lectr.
.....	Prof. Drumm, P. J., M.A., Ph.D., D.Sc.	Lectr.
McCarthy, C. P., M.Comm., F.S.A.A.	Moynihan, E., M.Sc.	Asst.
Downey, J., M.Comm.	Kelly, D. F., M.Sc.	Asst.
1 Demr.	<i>Classics</i>	
<i>Agriculture, v. infra</i>	Treston, H. J., M.A., D.Litt.	Prof.
<i>Anatomy</i>	Porter, W. H., M.A. Dub.	Lectr.
Fitzgerald, D. P., B.A., M.B., B.Ch., B.A.O.	<i>Dairy Science, v. infra</i>	Agric.
Hamilton, W. D., B.Sc., M.D., M.Ch.	<i>Dentistry, v. infra</i>	
Donovan, E., M.D., M.Ch., M.A.O.	<i>Economics and Commerce</i>	
	Busteed, J., M.Comm., F.S.S.	Prof.
<i>Archæology</i>	Larkin, Rev. W. P., M.A., Ph.D.	Asst.
Rearden, J. P., M.A., Ph.D., H.Dip. Ed.	<i>Education</i>	
<i>Architecture</i>	Vaughan, Frances M., M.A., H.Dip. Ed.	Prof.
Hill, H. H., B.A. Liv., A.R.I.B.A.	Conlon, J., M.A., H.Dip.Ed. (in Irish)	Lectr.
<i>Botany</i>	McSweeney, E. P., M.A. (Hist. of Ed.)	Lectr.
Sperrin-Johnson, J. C., M.A., Litt.D., M.Sc., M.B.	McCarthy, B. G., M.A.	Asst.
Riordan, Elizabeth M., M.Sc., H.Dip. in Ed.	<i>Engineering, Civil</i>	
<i>Chemistry</i>	Walsh, H. N., M.E., D.I.C.	Prof.
Reilly, J., M.A. Camb., D.Sc. Geneva and Dub., H.Dip.Ed., F.R.C.S.I., F.I.C., F.I.P.	Coffey, Patrick, M.E.	Lectr.
	<i>Engineering, Municipal</i>	
	Farrington, S. W., B.A., M.E.	Lectr.

<i>English</i>		<i>Philosophy</i>	
Corkery, D., M.A.	Prof.	O'Mahony, Rev. J. E., M.A., D.Litt.	Prof.
<i>French</i>		Callaghan, Rev. John, M.A.	
Servais, Yvonne	Asste.	<i>Physics</i> [Prof.	
<i>Geology and Geography</i>		McHenry, John J., M.A., D.Sc.	
Swain, I., B.A., M.Sc., A.R.C.S.I.	Prof.	Kelly, C., M.Sc. (Exper. P.)	
O'Leary, Louisa, B.A.	Asst.	r Demr.	
<i>German</i>		<i>Physiology</i>	
Boyle, Mrs. Mary, M.A.	Prof.	Barry, D. T., M.D., D.Sc., D.P.H., F.R.C.S.	
<i>History</i>		McCarthy, E. F., B.Sc., M.B.	
Hogan, J., B.A., D.Litt.	Prof.	Asst.	
Pender, J., M.A. (in Irish)	Lectr.	Whelton, A., B.A., M.D.	
Henley, Pauline, M.A.	Asst.	Asst.	
<i>Irish Lang. and Lit.</i>		<i>Romance Languages</i> , v. also	
O'Donoghue, T., D.Litt.	Prof.	French	
O'Donoghue, E., M.A. (Mod. Irish)	Lectr.	Ryan, Mary, M.A.	
Cullinane, C., M.A.	Lectr.	<i>Spanish</i>	
Caomhánac, S., M.A.	Asst.	Healy, J. G., M.A., Ph.D.	
<i>Irish Music</i>		<i>Zoology</i>	
Neeson, S., B.A.	Lectr.	Renouf, Louis P. W., B.A. Camb., Dip. Agric. Camb., M.Sc.	
<i>Law</i>		Prof.	
Daly, G. J., B.L.	(C. Law, Real Prop. and Eq.)	Murphy, Marjorie, M.Sc.	
Prof.		<i>Agriculture</i>	
Murphy, C. K., M.A., LL.B., H.Dip.Ed. (Jur., Roman L. and Pers. Prop.)		<i>Agriculture</i>	
Prof.		Boyle, C., M.A. Wisc., B.Sc., Ph.D. Lond., D.I.C.	
<i>Mathematics</i>		Prof.	
Atkins, H. St. J., M.Sc.		<i>Dairy Accountancy</i>	
McCarthy, M. D., B.A. (in Irish)		Murphy, M., M.A., B.Comm.	
Lectr.		Lectr.	
<i>Mathematical Physics</i>		<i>Dairy Bacteriology</i>	
O'Rahilly, A., M.A., B.Sc., Ph.D.		Grimes, M., B.Sc. Tor., M.Sc., Ph.D. Iowa	
Prof.		Lectr.	
<i>Medicine and Surgery</i> , v. <i>infra</i>		Dromey, L., M.Sc.	
<i>Music</i>		Asst.	
Fleischmann, A. G., M.A., B.Mus.		<i>Dairy Chemistry</i>	
Prof.		Pyne, G. T., B.Sc. Lond., M.Sc., Ph.D., A.R.C.S.I., F.I.C.	
		Lectr.	
		McSweeney, D. T., M.Sc.	
		Asst.	

Ryan, J. J., A.R.C.Sc.I., M.Sc.	Asst.	<i>Obstetrics and Gynæcology</i>	Kearney, J. J., M.D., D.P.H., F.R.C.S.Ed.	Prof.
<i>Dairy Engineering</i>				
McGrath, F. A., B.E.	Lectr.	<i>Ophthalmology and Otology</i>	O'Hea-Cussen, V., M.B., B.Ch., B.A.O., D.O. Ox.	Lectr.
<i>Dairy Technology</i>				
Lyons, J., M.Sc., N.D.A., N.D.D., A.R.C.Sc.I.	Lectr.	<i>Pathology</i>	Moore, A. E., M.B., B.Ch., B.A.O.	Prof.
O'Shea, M. J., B.Sc. (Dairying)	Asst.		O'Donovan, W. J., M.B., B.Ch., B.A.O., B.Sc., D.P.H. (Clin. P.)	Lectr.
<b>Medicine</b>			O'Donovan, Mrs. Mary, M.B., D.P.H. (Clin. Path.)	Asst.
(for subjects of first 2 yrs.—Anat., etc., v. <i>supra</i> )				
<i>Hygiene and Public Health</i>		<i>Surgery</i>	Dundon, J., M.B., B.Ch., B.A.O., F.R.C.S., F.R.C.S.I.	Prof.
Saunders, J. C., M.B., B.Ch., B.A.O., D.P.H.	Prof.		Kiely, P., B.Sc., M.D., M.Ch., F.R.C.S.	Asst.
..... (and Tuberculosis)	Lectr.			
<i>Materia Med.</i>		<i>Therapeutics</i>	Cantillon, E. V., M.B., B.Ch., B.A.O.	Lectr.
Donovan, T., M.A., M.B.	Lectr.			
<i>Medical Jurisprudence</i>				
Riordan, M. J., M.B., B.Ch., M.A.O., F.R.C.S.I.	Lectr.			
<b>Medicine</b>				
O'Donovan, J. M., M.Sc., M.D., F.R.C.P.I.	Prof.	<b>Dentistry</b>	Hackett, J. R., M.B., L.D.S. (D. Surg.).	Lectr.
<i>Mental Diseases</i>			Roche, M.A., B.D.S. (D. Mech.).	Lectr.
Honan, B. F., L.R.C.P. & S.I., D.P.M.	Lectr.			

## GENERAL INFORMATION

Queen's College, Cork, founded in 1845, became a constituent College of the N.U.I. in 1908.

**LIBRARY:** over 200,000 vols., including the d'Arbois de Jubainville collection of Celtic works, the Sharman Crawford Library, the Wilson Historical Library, the Sexton Anglo-Indian Library. **MUSEUMS:** Archæol., Ethnol., Geol., Mineral., Nat. Hist., Med.

**LABORATORIES.** Agr., Biol., Chem., Engin. (Testing, 200,000-lb. machine, and Hydraulics), Geol., Physics, Medical School. **BOTANICAL GARDENS.** **OBSERVATORY** with 8" equatorial and 11" photo. telescopes, seismograph, and 4" siderostat.

Complete COURSES provided for all degrees and diplomas of the Univ., except 2 yrs. in the B.Sc.Agric. course. Students are also prepared for the examns. of the Univ. of Lond. The Diploma in Dairy Science (2 yrs.' course) is necessary for all who wish to become creamery managers in Ireland.

Commerce students can do 6 mos.' practical work in railway or accountants' offices, etc.

FEES for tuition, including College fee : Arts, £48 ; Science, £75 ; Engin., £75 ; Med., £200, including Hospl. fees ; Dentistry, £191, including Hospl. fees ; Music, £36.

RESIDENCE. Hostel for men and hostel for women (charitable trust, R.C. only) ; students are supervised by Officers of Residence.

PUBLICATIONS. *Calendar* (Easter), 6d. ; *Sessional Lists* (June), 6d.

## THE YEAR 1936-37

EXTRA-MURAL WORK. Weekly Lectures to Workmen.

RETIREMENT. Rev. Prof. T. E. Fitzgibbon (Philos.).

DEATHS. D. J. Leahy (Hist. and Geog., thro' Irish) ; P. E. Belas (Exp. Physics).

STUDENTS. Full-time, 860, including 80 graduates.

DEGREES OBTAINED. B.A., 80 ; M.A., 10 ; LL.B., 1 ; B.E., 6 ; B.Comm., 19 ; B.Sc., 12 ; M.Sc., 6 ; M.B., 23 ; M.D., 1.



# UNIVERSITY COLLEGE, GALWAY

Founded 1849

VISITOR—H.M. THE KING IN COUNCIL.

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REGISTRAR—Prof. J. MITCHELL, B.Sc., B.E., F.G.S.

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Telephone : Galway 22.

## TEACHING STAFF

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r Demr.

### *Archæology, Celtic*

Hynes, Rt. Rev. Mgr. J., M.A.,  
B.D. Prof.

### *Chemistry*

Dillon, T., M.A., D.Sc. Prof.  
Clarke, Rosalind, B.A., D.Sc. Asst.  
Barry, V., M.Sc. Asst.  
..... Asst.

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Fahy, Rev. T., M.A., B.D. Prof.  
Heavey, Margaret M., M.A.,  
H.Dip.Ed. Lectr.

### *Economics, Commerce, & Acctcy.*

McBryan, F., M.A., H.Dip.Ed. Prof.  
O'Buachalla, L., B.Comm., H.Dip.  
Ed. Lectr. (in Irish).

### *Education*

Larkin, P., B.A., H.Dip.Ed. Prof.  
MacFhinn, Rev. P. E., M.A.,  
D.D., H.Dip.Ed. Lectr. (in Irish).  
MacCabe, Rev. Br. L., B.A.,  
H.Dip.Ed. Asst.

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O'Connor, H. G., M.E. Asst.

### *Engineering, Electrical*

Ryan, E. R., B.Sc., B.E. Asst.

### *English Language and Lit.*

Murphy, J., M.A., Ph.D. Prof.

### *Geology and Geography* [Prof.

Mitchell, J., B.Sc., B.E., F.G.S.  
O'Buachalla, L., B.Comm., H.Dip  
Ed. (Geog. in Irish) Asst.

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Shea, Mrs. Margaret M., M.A. Prof.

### *History*

[Prof.  
O'Sullivan, Mrs. Mary J. D., M.A.  
Kennedy, Sheila G., M.A.,  
H.Dip.Ed. Lectr. (in Irish).

### *Irish Lang., Philol., and Lit.*

O'Maille, T., M.A. Manc., Ph.D.  
Freib., D.Litt. Prof.

### *Irish, Modern*

O'Raghallaigh, T., M.A., Ph.D.,  
H.Dip.Ed. Lectr.

### *Law and Jurisprudence*

Arkins, P. A., B.A., LL.B. Prof.

### *Mathematics*

Power, M., M.A., B.Sc. Prof.  
Newell, M., M.Sc. Lectr. (in Irish).

Ryan, E. R., B.Sc., B.E. Asst.

<i>Mathematical Physics</i>		<i>Medicine</i>	[Prof.]
MacCionnaith, E., M.A., M.Sc., A.R.C.S.I.	Prof.	Fallon, W. M., B.Sc., M.D., D.P.H.	
<i>Medicine, v. infra</i>		<i>Mental Diseases</i>	
<i>Natural History</i>		English, Adeline, M.B., B.Ch., B.A.O.	Lectr.
Dinan, T. J., M.Sc.	Prof.	<i>Midwifery and Gynæcology</i>	
Higgins, M. J., M.Sc.	Asst.	Morris, D. V., M.B., B.Ch., M.A.O.	Prof.
<i>Philosophy</i>		<i>Ophthalmology and Otology</i>	
O'Brien Rev. F. O.F.M., Ph.D., D.D., B.C.L.	Prof.	O'Malley, C. C., B.Sc., M.B., B.Ch., B.A.O., D.O.M.S.	Prof.
<i>Physics</i>	[Prof.]	<i>Pathology</i>	
O'Brolchain, C., M.Sc., Ph.D.		Walsh, T. (v. Med. Jur.)	Prof.
<i>Physiology</i>		<i>Surgery</i>	
Donegan, J. F., B.Sc., M.B., B.Ch., B.A.O.	Prof.	O'Malley, M. G., M.B., B.Ch., B.A.O., F.R.C.S.	Prof.
<i>Romance Languages</i>		<i>Therapeutics, Mat. Med., and Pharmacol.</i>	
O'Brien, W., M.A.	Prof.	McDermott, E. N., B.Sc., M.D., F.R.C.S.I.	Prof.
<i>Medicine</i>			
<i>Med. Jurisprudence and Hygiene</i>			
Walsh, T., M.A., B.Sc., M.D., D.P.H., H.Dip.Ed.	Lectr.		

## GENERAL INFORMATION

Queen's College, Galway, opened in 1849, became a constituent College of the N.U.I. in 1908.

**LIBRARY:** 50,000 vols. **LABORATORIES:** Physics, Chem., Biol., Physiol., Path., Geol., Engin. **MUSEUMS:** Nat. Hist., Mat. Med., Gynæc., Anat. Dept.

**DEGREE COURSES** in Arts, Celtic, Science, Law, Med., Engin., Commerce. Courses for Diplomas in Educn., Irish Studies, Commerce.

Med. degree students are required to spend 1 yr. at a Metropolitan Hspl. after a 4 yrs.' course in the College and 2 yrs. in the Galway Hospitals.

**FEES.** College, £2: 10s. p.a. (women, £2 p.a.). Inclusive approximate fee for complete Degree course: Arts, 3 yrs., £26; Science, 3 yrs., £36 to £50; Law, at least 6 terms after B.A., £12; Medicine, 5 yrs. (including 2 yrs.' General Hospital fees), £85; Engineering, 3 yrs., £53; Commerce, 3 yrs., £26. Post-graduate or research course, £4 to £6.

**SCHOLARSHIPS** open to students of the Coll. on graduation: 4 of £40.

**RESIDENCE.** The cost of board and lodging for a student varies from 25s. to 30s. a week. Every student is required to register under a Dean of Residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a Lady Supt., who exercises supervision over their conduct within the precincts of the College.

There is an **APPOINTMENTS BOARD** consisting of the President, the Deans of the Faculties and the Registrar.

PUBLICATIONS. List of licensed lodging-houses, free; *College Calendar* (1s. 4d.); Regns. for Degrees and Courses (8d.); Regns. for Scholps. and Diploma in Educn. (2½d.); Gaeltacht Scholarships (1½d.); Univ. Examn. Papers (post free, 1s. 8d.), from O'Gorman and Co., Galway

### THE YEAR 1936-37

RETIREMENT. Prof. John Howley (Philosophy), after having attained the age limit.

DEATH. Emeritus Prof. Alexander Anderson (former Professor and President of the College), November 1936.

STUDENTS. Full-time; 622, including 64 graduates. Part-time: 10, including no graduates.

DEGREES OBTAINED. B.A., 28; M.A., 5; B.Sc., 10; M.Sc., 2; B.Agr.Sc., 3; M.B., B.Ch., B.A.O., 6; B.E., 11; B.Comm., 21; Dip. in Ed., 9; H.Dip. in Ed., 41; Dip. in Irish Studies, 1.

# CANADIAN UNIVERSITIES

In *Nova Scotia* : ACADIA, DALHOUSIE, KING'S COLLEGE, ST. FRANCIS XAVIER. In *New Brunswick* : NEW BRUNSWICK, MOUNT ALLISON. In *Quebec* : BISHOP'S COLLEGE, LAVAL, MCGILL, MONTREAL. In *Ontario* : MCMASTER, OTTAWA, QUEEN'S, TORONTO, TRINITY COLLEGE, VICTORIA, WESTERN ONTARIO. *Western Provincial Univs.* : MANITOBA, SASKATCHEWAN, ALBERTA, BRITISH COLUMBIA.

## GENERAL DESCRIPTION

[Contributed by A. Stanley Mackenzie, late President of Dalhousie Univ. An account by President Walter C. Murray, of the Univ. of Saskatchewan, of "University Development in Canada," is to be found in the *Trans. Roy. Soc. Can.*, Third Series, 1922, vol. xvi. See also his article on "State Support and Control of Universities in Canada," in *Trans. R.S.C.*, Sect. II., p. 19, 1925. See also "American Influence on the Higher Education of Canada," *Trans. R.S.C.*, Sect. II., 1930, by Sir Robert A. Falconer, President of the Univ. of Toronto, and by the same author, "Higher Education in Canada," in the *Book of Canada*, published by the Canadian Medical Association, Toronto, 1930, pp. 139-151.]

The word "university" is used very loosely in Canada, and in the following sketch a number of institutions which are in reality Colleges will be referred to. In this book twenty-one are listed, twenty-three in the *Canada Year Book*. It is probably not true to say that Canada has evolved a distinctive type of Univ.; and yet Canadian higher institutions of learning differ in many ways from the corresponding institutions in the British Isles and in the United States. One might divide Canadian Univs. into (1) those which are supported and controlled by a religious group: Laval, Montreal, Ottawa, St. Francis Xavier, St. Joseph's, by the Roman Catholics; King's, Bishop's, Trinity, by the Church of England; Mount Allison, Victoria, by the United Church of Canada (a union of former Congregationalists, Methodists, and part of the Presbyterians); Acadia, McMaster, by the Baptists; (2) those that receive State support and are subject more or less to State control: New Brunswick, Toronto, Manitoba, Saskatchewan, Alberta, British Columbia; and (3) those that are independent of Church and State and depend upon private benefactions: Dalhousie, McGill, Queen's, Western Ontario. In order to understand, however, the great diversity among the various universities, even among those in any one group, some reference to the history of the rise and growth of university education in Canada must be made.

All the older colleges, with the exception of Dalhousie and McGill, were established by the Churches, to meet the obvious need for native ministers and teachers in a new and far-flung country. The next step was an appeal to the State, often to both the Local Government and the

Home Government, for a grant-in-aid, which was usually made. As in practically all political divisions, except Quebec, there were other strong religious bodies besides the one to receive this grant, there was before long in the nature of things resentment by these other bodies, and religious and political strife was engendered. In many cases the College Question was inextricably mixed up with the struggle of the people for responsible government, for democratic rule instead of oligarchical Councils. The changes in the Universities run parallel in the main with the political development of Canada.

**THE FRENCH COLLEGES.** The oldest University in Canada is Laval, in Quebec City, growing out of the founding of a Seminary there in 1663. It is modelled after the French universities, and is a group of professional and graduate schools, and has wide degree-granting powers. There was for many years a branch of Laval in Montreal, but in 1920 it became a separate entity under the name of the University of Montreal. It, like Laval, is intimately associated with the Church, in the firm belief that education cannot be dissociated from religion. Both receive State aid, but are not under State control. The undergraduate work preliminary to these two universities is done by twenty-four Classical Colleges scattered through the Province of Quebec. These give the Bachelor degree. These institutions have altered little in their general character with the changes in the political life of the Dominion. Ottawa combines the University and the Classical College. Closely akin to the Classical Colleges of Quebec, but not necessarily associated with Laval and Montreal, is a group of Maritime colleges: St. Joseph's and St. Thomas' in New Brunswick, St. Mary's and St. Anne's in Nova Scotia, and St. Dunstan's in Prince Edward Island. St. Francis Xavier and Mt. St. Vincent, Halifax, recently chartered, are the only Roman Catholic colleges not of the French type, being more like the non-Catholic institutions.

**THE KING'S COLLEGES.** The next stage in the development of higher education in what is now Canada was due to the arrival of the Loyalists from the American colonies. These people belonged mainly to the Established Church of England, and, though intensely loyal to the Mother Country and intolerant of republicanism, were yet imbued with advanced ideas of independence and democracy, and immediately made their presence felt. They wanted not only educational advantages for their children, but they wanted educational institutions which would be under the Church of England, believing that loyalty to Britain was almost a monopoly of those of that faith. There was thus introduced a political factor into the educational movement which had far-reaching consequences. The coming of the Loyalists led to the founding of what are called the King's Colleges. The first of them, and the only one which retains the name, was King's College, which was established at Windsor, Nova Scotia. In 1923 it removed to Halifax, and is intimately associated with Dalhousie. The nature of the association is that students in the Faculty of Arts and Science must register as students of the University, but may enrol as members of King's College, where they enjoy a corporate life similar to that of a college of Oxford. The students of the two institutions are a unit for instructional purposes

(except for certain subjects of the freshman year, where the King's students form a section by themselves), and the teaching staffs paid from the funds of each institution form a common Faculty. The University grants all degrees. The Faculty of Divinity of King's has no part in this association. The second King's College was established in 1800 as the College of New Brunswick, at Fredericton. On receiving a royal charter in 1828, it took the name of King's College (*v. infra*). The third, King's College, Toronto, received a similar charter in 1827. The precursor of these three colleges was undoubtedly King's College, New York, which, since the Revolution, has borne the name of Columbia University. All these Colleges were closely modelled after Oxford. The three Canadian King's Colleges practically all received grants, either in lands or money, or both, from the Imperial and Provincial Governments. In order to understand the cause of the educational struggles which took place in the first half of the nineteenth century it must be pointed out that their charters gave the control of these colleges to a Board composed mainly of officials of the Crown and adherents of the Church of England. The Church had accordingly a controlling voice in the College, and claimed exclusive privileges. The College was in reality a private institution receiving State aid, and those who were not members of the Church of England, and they were far in the majority, were thus taxed to support it and were cut off, in some cases entirely, from equal educational privileges. It is not difficult to see that this must inevitably have led to bitter controversy and strife. As the Governing Boards of the Colleges were largely identified with the oligarchical governing Councils of the Provinces, it is evident also that the educational and political causes would be inextricably mixed in the struggle of the many against the exclusive rule of the few.

**THE SCOTTISH COLLEGES.** The third stage was ushered in by the insistence of other religious denominations upon equal rights with the Church of England in the control of colleges already established, or upon being allowed to have colleges of their own with government grants as in the case of the King's Colleges. The lead was again taken in Nova Scotia. Dr. Thomas McCulloch, a Scot and a Presbyterian, had instituted at Pictou early in the nineteenth century Pictou Academy, which, though without degree-granting powers, acquired a high reputation for the scholarship of the men who were trained there (one was Dawson, the great Principal of McGill University). He was such a bonny fighter that, in spite of the bitter opposition of Governor and Council he received a provincial grant for Pictou Academy in 1819. Similar attacks on the existing state of affairs were made by Scotsmen in New Brunswick and Ontario. About this time Lord Dalhousie entered the arena, and, by the founding of Dalhousie College, broke for all time the ring of King's Colleges. He was another Scot, one who had experience as a General in the Napoleonic wars. During the war with the United States in 1812-14, the Province of Nova Scotia, of which he was then the Lieutenant-Governor, became possessed of a sum of about £11,000, which he used to found a college which was to be a direct protest against sectarianism and special privilege. By its Charter

it was to be "open to all occupations and sects of religion." It was also to be "on the same plan and principle as that of Edinburgh." Its founding in 1818 marks, therefore, one of the most important points in the development of Canadian higher education, the introduction of the Scottish type of university, where learning and scholarship were accented rather than the fine art of living, and where residential life was not looked upon as essential. Lord Dalhousie made one great mistake; he placed his infant college in the hands of some of the same officials as were the Board of King's College, and they kept its doors shut for twenty years. Their hands were forced, however, in 1838, and Thomas McCulloch became its first President. On his death, in 1843, the college was again closed, as the necessary financial support was not forthcoming, and it remained closed until 1863, when the spirit of union was taking hold of Canada in educational as well as political matters. The early history of McGill University is very similar to that of Dalhousie. It received its first charter, a Provincial one, in 1801, as the Royal Institution for the Advancement of Learning. As McGill College, it received a Royal Charter in 1821, subsequent to a bequest of land and the sum of £10,000 by James McGill, a Scottish resident of Montreal. It was also non-sectarian and modelled on Edinburgh, and for a number of years had a very precarious existence, and was not able to live up to the hopes of its founder. With the appointment of Dawson as its Principal in 1855 began its rapid and brilliant career. Queen's (*v. infra*) is the third of the Canadian universities of the Scottish type.

**THE SECTARIAN COLLEGES.** There followed in rapid succession the establishment of purely denominational colleges, and it is interesting to note that it was during the period of most intense political strife. Baptists founded Acadia, at Wolfville, N.S., in 1838; Methodists, Mount Allison, at Sackville, N.B., in 1858; Scottish Roman Catholics, St. Francis Xavier, at Antigonish, N.S., in 1855; French Roman Catholics, St. Joseph's, at Memramcook, N.B., in 1864; not to mention others which have since lost their identity. All these are in the Maritime Provinces. In Ontario were founded Victoria, at Cobourg, by Methodists, in 1841; Queen's, at Kingston, by Kirk Presbyterians, in 1842; Knox, at Toronto, by Free Presbyterians (now purely a Divinity School), in 1843; McMaster, at Toronto, by Baptists, in 1857; Trinity, at Toronto, by Anglicans, in 1851; and Ottawa, by Roman Catholics, in 1849. In Quebec we find Bishop's College, founded in 1843, by the Anglicans. These denominational colleges demanded, and in most cases received, a share of State aid. In time the obvious wastefulness of this use of State money led to its discontinuance, and also led to efforts to find a better basis for higher education.

**THE ATTEMPTS FOR UNION.** From 1841, when the union of Upper and Lower Canada took place, to 1867, when the Dominion of Canada was formed, the spirit of union was abroad, and following this period we see a uniting of various subdivisions of Presbyterians and again of Methodists. Efforts to unite groups of colleges are much in evidence during this period. Efforts to unite Dalhousie and King's in Nova Scotia, which had begun in 1823, and which had been renewed many

times, always failed (but *v. supra*). The co-operation of Presbyterians and Congregationalists who closed their own small Arts Colleges, enabled Dalhousie to reopen its doors in 1863. Several attempts to bring about a federation of the colleges in Ontario begun in 1843 failed until 1887.

**THE LONDON UNIVERSITY TYPE.** One of the many schemes of union proposed was the foundation of universities on the model of the University of London, with only examining and degree-conferring powers, which powers the constituent colleges were to hold in abeyance. An effort to initiate such a university in Toronto, in 1853, failed. So did the proposed founding of the University of Halifax, in 1876, fail. A similar effort in Winnipeg succeeded. The University of Manitoba, thus established, passed from being a "paper" university to the giving of instruction, first in Science, then in some departments of Arts also, then to the possession of professional schools, and finally to the full status of a State University.

**THE TORONTO FEDERATION.** A brief sketch of the history of the University of Toronto may serve to bring out the various stages through which the Canadian problem of higher education passed, and show the interesting form of federation which has proved so successful there. As stated above, King's College, Toronto, was given a Charter in 1827. It received a grant of land and was purely sectarian, Church of England. In 1837 its Charter was amended by modifying in some degree this Church control. Then followed the foundation of Victoria, Queen's and Knox (*v. supra*). King's was opened in 1843. Protests from other denominations brought about its secularization in 1849, its name being changed at the same time to the University of Toronto, and its control vested in the State. The Faculty of Divinity was abolished, and all denominational colleges were to be admitted to affiliation only as Divinity Schools. This refusal to recognize religion in education led to the founding of still more colleges (Trinity by the Anglicans, in 1851, St. Michael's by the Roman Catholics, in 1852, and McMaster by the Baptists, in 1857, all in Toronto),<sup>1</sup> and to the continued opposition of Queen's and Victoria. In 1851 another change was made, using the University of London as a model. All teaching work was withdrawn from the University, this being relegated to affiliated colleges. For this purpose a new body was formed, University College, and the Faculty of Arts transferred to it, and the Faculties of Law and Medicine discontinued. The University was to manage the finances, conduct examinations and confer degrees. The teaching was to be done by Federated Colleges, of which University College was to be the first. It was to be undenominational. The denominational colleges did not enter into the scheme, and it failed to bring about the federation which was hoped for. Various causes led to the federation of 1887. In the first place, the Government withdrew in 1868 its grants to the denominational colleges. In the second place, the growth of science and the introduction of the conception of research and post-graduate work into the universities increased enormously the cost of maintaining educational institutions. The University of Toronto (and University College) felt the pinch equally

<sup>1</sup> McMaster removed to Hamilton, July 1930.



with the denominational colleges, for its only source of revenue was from the Crown lands with which King's had been originally endowed. It accordingly applied to the Legislature for a grant from the Provincial treasury. Naturally the competing denominational colleges strenuously objected to this. But the spirit of union in Canada, which showed itself in the political union of 1867, was called upon, and not in vain, for in 1887 a scheme of Federation was accomplished. The essence of the scheme is a group of Arts or Divinity Colleges gathered about a central University, supported and controlled by the State, the University conducting examinations, conferring degrees (except in Divinity), and giving the instruction in those branches of learning which are costly to conduct, or are taken by only a few students, or are professional in character. The division of subjects between the constituent Colleges and the University was set forth in the Act of 1887, but provision was made for change as future needs should dictate. Provision was also made for the affiliation of purely Divinity Schools like Knox and Wycliffe. All these constituent Colleges and Divinity Schools were given representation on the governing bodies of the University. Victoria and St. Michael's and Trinity entered the Federation, the former moving from Cobourg to Toronto in order to do so; but Queen's and McMaster elected to remain independent. The University is operating to-day under the Act of 1906. The only change from the Act of 1887 which need be referred to in this sketch is that the University is no longer administered through a department of Government, but by an independent Board of Governors appointed by the Lieutenant-Governor in Council. Moreover, academic appointments can be made only on the nomination of the President of the University. By these means the University was removed from the suspicion of political and sectarian interference, and a high character in its academic staff assured.

**THE WESTERN UNIVERSITIES.** It remains to deal in general with the State University, that is, the type of university supported and controlled by the State. The oldest of these is the University of New Brunswick, chartered as King's College, Fredericton, in 1828, under the control of the Church of England. It received its present name in 1859, when it was secularized and put under the direct control of the Department of Education of the Government of the Province, and, at the same time, given very modest financial support. The form of State University developed in Ontario has already been described. The four Western Universities are, however, those which have carried to its completion the State University Idea. This idea is that the State must provide and support university education for all its people, irrespective of the part which may be played by private interests, whether ecclesiastical or otherwise. The idea carries the corollary of State control. It is a natural extension of the idea of free schools, which were established in Nova Scotia in 1864 and in Ontario in 1871, and carries to its logical conclusion the doctrine of democratic government, that all its citizens must be educated. Closely associated with the idea of the State University is the conception that the University must return service to the State. The governments expect to call for and to receive guidance

and expert advice from the academic staff of the University, and look to them for the study and investigation of the natural resources of their Provinces. The Universities also carry the knowledge so acquired to every portion of the Province through a highly organized form of Extension service. This attitude is obviously not of British origin, but came to Canada from the United States. In the four Western Provinces, Manitoba, Saskatchewan, Alberta, and British Columbia, the respective governments have carried the idea to its logical conclusion by confining to the State University the power of conferring degrees. The constitutions of these four Universities are modelled so largely upon that of Toronto that it is unnecessary to refer to them in detail. Manitoba University is very like Toronto in that it has constituent Arts Colleges, as well as affiliated Divinity and Junior Colleges; the same thing is taking place in the other three. Notwithstanding the youth of these Universities (Alberta opened in 1908, Saskatchewan in 1909, Manitoba in practically its present form in 1900, and British Columbia in 1915), they have all grown to be strong, vigorous institutions serving well their constituencies.

As the years have gone by, all these institutions, while maintaining their individuality and evidences of their original form, have tended to uniformity in many important regards. Thus, they all require four years for the Bachelor (Pass) degree in Arts or in Science. Again, they have a common standard of preliminary education for admission to the courses leading to these degrees. This standard is that attained by a satisfactory completion of three years of a High School Course superimposed on eight years in the Common Schools. This standard is called Junior Matriculation. If a pupil has successfully completed the fourth year of the High School Course in the proper subjects, or passes the equivalent Senior Matriculation examination, he can enter the second year and complete the course for the degree in three years. This practically amounts to saying that High Schools or Collegiate Institutes which have a fourth year course give in that year about the same work as is done in the first year of the Univ. course for the Pass degree. In Ontario the High School Course leading to Junior Matriculation standard covers four years instead of three.

**JUNIOR MATRICULATION.** Students can satisfy the Entrance requirements of the Univs. by the presentation of a satisfactory certificate of the results of examinations conducted either by Universities or by Provincial Departments of Education, provided such certificate shows a Pass in the Required Subjects of matriculation. These required subjects differ somewhat from one Univ. to another. Most of the Univs. require for the B.A. degree the following six subjects: (1) English, (2) History, (3) Algebra (through quadratics), (4) Geometry (at least four books), (5) Latin, (6) a second foreign language. There is in nearly every Univ. a seventh subject; it is usually a science (in some cases specified, in others elective), but in many cases a third foreign language is accepted instead.

Where a course in Pure Science is given leading to the degree of B.Sc. the requirements are as above, except that the two foreign languages are French and German.

There is much more variation in the requirements for entrance to the courses in Applied Science or Engineering; but the best schools of Applied Science require in addition to Junior Matriculation at least a year in Arts and Science.

The curriculum for students of Medicine has been undergoing a change in all the Canadian Schools. In general the course of study requires 7 years following on Junior Matriculation. In some of the Univs. 6 of these years must be taken in the Medical School. In others the first 2 years (which are largely Pure Science) may be taken in any recognized Arts College.

There has been a similar advance in the standard of preliminary education required of students seeking admission to the study of Law. In the chief schools at least 2 years of Arts is required. At all the Schools the Law course proper extends over 3 years.

The standard of preliminary education required of students entering upon the study of Dentistry is the equivalent of 2 years in Arts and Science, and is practically identical with that for Medicine.

**ARTS COURSE.** Speaking very generally, one can say that about one-half of the course for the degree of B.A. is prescribed and the other half elective; but these elective subjects are commonly to be distributed among certain broad groups of allied subjects in a specified way, varying with the individual Univs. The prescribed work includes English, History, two foreign languages, one of which is usually Latin (British Columbia and Manitoba require only one), Philosophy, Mathematics, and Science. In the case of the B.Sc. degree in Pure Science the two foreign languages required are French and German.

A feature of Canadian Univs. which distinguishes them from the typical Univs. of the United States is the provision made for the ambitious student and the student who wishes to specialize during his course for the Bachelor degree. This is accomplished by the provision of the system of Honour courses. In this system a student who shows the necessary aptitude is permitted to take special classes, which in some instances are in extension of the regular classes, and in other cases are restricted to Honour students. In some Univs. the Honour classes are confined to the third and fourth years of the course; in others, as in the case of Toronto, they are given in all four years, and there is also a special Honour matriculation. In general, also, the number of prescribed classes is reduced, so that the student not only goes more deeply into each subject, but specializes to a greater extent than the Pass man is allowed to do. On the completion of an Honour course the student receives a degree with Honours. No small measure of the academic success of Canadian students in post-graduation work in home and foreign Univs. is to be attributed to this system.

By a proper combination of studies a student can complete a combined course for the degree in Arts or Science and that in a professional faculty in a year (in some cases, two years) less than the sum of the years required for each.

**LENGTH OF SESSION.** The Canadian Univs. open about the end of September and close in May or early in June. The average length of

the session is  $32\frac{1}{2}$  weeks for all faculties, except those of Medicine and Dentistry, which are 4 weeks longer. Of the  $32\frac{1}{2}$  weeks, 26 are given up to actual lecturing, and the remainder to vacations, examinations, and closing exercises.

CONSOLIDATION OF THE COLLEGES IN THE MARITIME PROVINCES. During the last few years a great deal of attention and consideration has been given to this question, which in one form or another is a century-old problem (see article by Murray referred to above). It has come prominently to the fore now because of the impossibility of so many small institutions (mostly sectarian) in a region containing only a million people being able to keep pace with the financial demands of modern education. The Carnegie Foundation for the Advancement of Teaching was invited to send experts to make a survey of the situation. They did so, and made a report, in which they advised that all these institutions should move to Halifax and join with Dalhousie, already there, in forming a strong central University. Each constituent was to maintain its name, identity, individuality, organization and funds, but give up its examining and degree-granting powers (except in Divinity) to the Univ. The Colleges should not teach the scientific subjects nor those subjects for which there would be a small demand, which should be given by the Univ. In general, the Colleges should restrict themselves to the Humanities. The Univ. would conduct all professional schools. The Colleges were to be residential. It will be seen that the scheme was something between that of Oxford and that of Toronto. It was a fair inference to be drawn from the report that, if the various institutions in question would get together, and the governments concerned make a grant-in-aid to the central Univ., the Carnegie Corporation of New York would give the scheme very generous aid. Representatives of the educational institutions and interests held many conferences and agreed upon a scheme of consolidation, and the Carnegie Corporation promised a gift of \$3,000,000. At this stage the scheme was halted, for the time being at least, by the refusal in succession of the Univ. of New Brunswick (non-sectarian), St. Francis Xavier's College (Roman Catholic), and Acadia College (Baptist) to enter it. In the meantime, King's College (Anglican) moved from Windsor to Halifax, and entered into a close association with Dalhousie Univ. (non-sectarian). The students of both institutions are taught as one body by the combined staffs, except in certain freshman classes (and in Divinity). King's holds in abeyance her degree-granting powers (except in Divinity), and the Univ. conducts all exams. and grants degrees. On the understanding that King's would raise the sum of \$400,000 for the erection of the necessary residential buildings, the Carnegie Trustees undertook to provide \$600,000 to be used as an endowment for the payment of an instructional staff for the combined students. The necessary sum was raised and the buildings erected. Mount Allison Univ. (United Church) has recently decided to remain at Sackville (N.B.). The original scheme of confederation having thus failed, the Carnegie Corporation offer has lapsed. There is no degree-granting educational institution in the adjoining colony of Newfound-

land, but the various interests there are very favourable toward the general scheme of a confederation of the educational forces of Eastern Canada. They have organized a Junior College at St. John's for the first two years of the work for the Arts degree. The Carnegie Corporation made a grant-in-aid for a period of five years.

DEGREES IN DIVINITY FOR STUDENTS BELONGING TO THE ANGLICAN CHURCH IN CANADA. The Church Universities and Theological Colleges in Canada have entered into an agreement to adopt a uniform standard for degrees in Divinity. All such degrees are now conferred only in accordance with Canon X of the General Synod of Canada, and only on examn. by a Joint Board, including the Archbishop of Rupert's Land (Chairman), and representatives of the Univs. of King's, Bishop's, and Trinity Colleges, Montreal Diocesan, Wycliffe (Toronto), Huron (London, Ont.), St. John's (Winnipeg), Emmanuel (Saskatoon), St. Chad's (Regina), Anglican Theol. Coll. of B.C.

NOVA SCOTIA TECHNICAL COLLEGE, HALIFAX. This institution represents the principal direct effort of the province in education of University grade. It is supported entirely from provincial revenues. Through a co-operative agreement, a uniform engineering course covering the work of the first, second and third years is carried out in the Univs. of Acadia, Dalhousie, King's, Mount Allison, St. Francis Xavier, St. Mary's College, and Memorial Univ. Coll., Newfoundland. On successful completion of this course, the student proceeds to the Technical College without examn. for the professional work of the last two years of the 5 yr. course. Here the studies are differentiated and the student selects either Civ., Elec., Mech., or Mining Engineering. The degree given is that of B.E. The Technical Coll. confines its attention entirely to the work of the last two years. It is equipped principally for teaching the engineering courses and commercial testing of industrial materials and natural resources, and incidentally for scientific research. Tuition fees :\$75 p.a. for British citizens, \$150 for those of other origins. Twenty county scholarships of \$75 p.a. are available for Nova Scotians. The buildings and equipment represent a provincial investment of about \$600,000.

THE CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING, 522 Fifth Avenue, New York City. The object of the Foundation, which was established in 1906 with resources which now amount to 30 million dollars, is to provide retiring allowances and pensions, and, "in general, to do and perform all things necessary to encourage, uphold, and dignify the profession of the teacher and the cause of higher education." It operates both in the U.S.A. and in Canada. The list of those eligible to receive retiring allowances and pensions in institutions associated with the Foundation includes the following classes of persons : (1) A person in an institution on the associated list who (a) is 65 years of age and has served not less than 15 years as professor, or not less than 25 years as instructor or as prof. and instr., or (b) has served 25 years as prof. or 30 years as instr. or as prof. and instr., and who is shown by medical examn. to be entirely unfitted by disability for continuing the work of teacher ; (2) a widow who has for 10 years been the wife of any teacher of class (a) or (b). The direction of the Foundation is entrusted to a board of 25 trustees, mostly university and college presidents.

The list of associated institutions includes ALBERTA, BRITISH COLUMBIA, DALHOUSIE, MCGILL, MANITOBA, QUEEN'S, SASKATCHEWAN, and TORONTO. Up to June 1937, 2621 allowances and pensions had been granted, including 143 in Canada and 5 in Newfoundland.

In addition to its work in connexion with the payment of pensions the Board of Trustees has undertaken the issue of various publications and their

free distribution. Among these are bulletins on Medical Education in Europe, Education in the Maritime Provinces of Canada, Games and Sports in British Schools and Universities, and the Quality of the Educational Process in the United States and Europe.

THE NATIONAL COUNCIL OF EDUCATION, Canada, was organized at a Conference on Education in relation to Citizenship held in Winnipeg in 1919. With the co-operation of Universities and Departments of Education the Council is developing a Bureau of Education, and has organized a system of National Lectureships whereby eminent lecturers are brought from Great Britain to Canada. The Bureau facilitates exchange of information between the provincial depts. of Education, the diffusion in Canada of ideas and information from outside the Dominion and *vice versa*. Triennial Conferences on Education are held, the next of which will be in Toronto in 1938. Executive Secretary, Major Fred. J. Ney, M.C., LL.D., 43 St. George St., Toronto (now headquarters for Canada); other offices at 411 Power Building, Winnipeg, 70 Sun Life Building, Montreal.

NATIONAL CONFERENCE OF CANADIAN UNIVERSITIES. President for 1937-1939—Chancellor H. P. Whidden, B.A., D.D., LL.D., D.C.L., F.R.S.C.

The Seventeenth Conference was held in Queen's University, Kingston, Ont., on May 31-June 1, 1937. Fifteen Universities, six Colleges, the National Research Council and the National Association of State Universities were represented. The subjects discussed were: Is the Arts Course losing ground?; The Effect of Summer Schools on the Standards of Faculties of Arts; Safeguarding Matriculation Standards; The Necessity of Compulsory Latin for Arts Matriculation; Can University Statistics be improved?; The Differentiation and Distribution of Academic Work among Canadian Universities; The Workers' Educational Association; Honours Courses: From the Universities' Standpoint—From the Schools' Standpoint.

The next meeting will be held in May 1939.

The Reports of the Conferences may be obtained from the Secretary, Dean K. P. R. Neville, University of Western Ontario, London, Ontario.

STATISTICAL TABLES relating to Canadian Universities and Colleges are published by the Dominion Bureau of Statistics, Ottawa, in its Annual Survey of Education in Canada, price 50c.

# ACADIA UNIVERSITY, WOLFVILLE, NOVA SCOTIA

Founded 1840

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## TEACHING STAFF

*Art, v. infra* School of Fine Arts

*Biology*

Perry, H. G., M.A. Harv., D.Sc.

C. F. Myers Prof.

Roscoe, Muriel V., M.A., Ph.D.

Radcliffe Prof.

Bayne, P. McE., M.A. Tor. Prof.

De Witt, C. E. A., B.A., M.D.,

C.M. McG.

Med. Officer & Instr.

*Chemistry*

Hill, D. U., M.A., Ph.D. Yale

Wallace Prof.

Small, C. W., M.A. Tor. Assoc. Prof.

Linton, E. P., B.Sc., Ph.D. Tor.

Assoc. Prof.

*Classics*

Thompson, W. H., M.A., Ph.D.

Yale Barss Prof.

Dawson, C. M., B.A. Camb.

Asst. Prof.

*Economic Science*

Balcom, A. B., B.Sc., M.A. Harv.,

D.C.L. Wallace Prof.

Mosher, J. I., M.A. Harv.

Asst. Prof.

*Education*

Robinson, E. W., M.A. Prof.

*Engineering* [I. Curry Prof.

Sutherland, A., B.Sc.

Steeves, R. T., M.A. Asst. Prof.

Cain, C. B., B.E. Instr.

*English Lang. and Lit.*

Rhodenizer, V. B., M.A., Ph.D.

Harv. Morse Prof.

Thomas, H. F. S., M.A. Tor.,

Ph.D. J. Hopk. Assoc. Prof.

Sipprell, H. F., M.A. Harv.

Asst. Prof.

*Geology*

Bancroft, M. F., M.A. Yale

King Prof.

*German*

Ross, Roy, M.A. Yale Prof.

*History*

Dadson, T., M.A., Ph.D. Chicago

Curry Prof.

Longley, R. S., M.A., Ph.D. Harv.

Assoc. Prof.

*Household Science*

McNally, Frances M., B.S., M.A.

Dean of School of H.Sci.

O'Blenes, Clarabel, B.Sc. Instr.

Cavenagh, Christine M., B.Sc.

(Hd.Ec.) Instr.





DEPARTMENTS. Arts and Sciences, Theology, Applied Science, Household Economics, Music.

DEGREE COURSES. 4 yrs.—B.A., B.A. (Theol.), B.Sc., B.Sc. (Hd.Ec.); 3 yrs.—B.Mus.; 1 yr. (graduate study)—M.A.; 2 yrs.—B.D. The B.Sc. Engineering courses entitle students to enter the Nova Scotia Tech. Coll. without examn., *v. p.* 434. These courses also enable students to enter the 3rd year classes of McGill Univ. Pre-Medical, Pre-Dental, and Pre-Law courses are offered.

FEES for tuition, annual: \$205-\$265. Board provided at \$7.50 per week, including room. Annual inclusive cost about \$450-\$500.

RESIDENCE. College hostels provide accommodation for 70 men and 228 women; University Dining Hall capacity, 600.

PUBLICATIONS. *Bulletin*, 25 cents p.a.; *Calendar* (July); *Students' Year Book* (May); *Athenæum* (monthly, Oct. to May).

## THE YEAR 1936-37

BENEFACTIONS. \$15,000.

OTHER DEVELOPMENTS. Service of Summer School enlarged by one addition to Summer Session Faculty.

EXTRA-MURAL WORK. Some courses by correspondence study method, not to exceed the full equivalent of one year's work.

RETIREMENT. Dr. H. J. De Wolfe (Prof. New Testament Lang. and Interpretation).

DEATH. Dr. A. C. Chute, Prof. Emeritus, Dept. of Old Testament Lit.

HONORARY DEGREES. *D.D.*—Rev. Z. L. Teash Moreton, N.B.; Rev. H. B. Sloat, S. Willington, Conn., U.S.A. *D.C.L.*—A. H. Gordon, M.D., Montreal, P.Q.; Pres. Sydney Smith, Winnipeg, Manit.; Justice W. L. Hall, Halifax; Hon. J. L. Ilsley, Ottawa.

STUDENTS. Full-time: 510, including 27 graduates. Part-time: 100.

DEGREES. B.D., 2; M.A. (Th.), 2; B.A., 73; M.A., 5; B.Sc., 26; B.Sc. (H. Econ.), 13; M.Sc., 1; B.Mus., 3; Engineering Certif., 4; Dipl. (H. Econ.), 7; Licentiate in Music, 2; Dip. in Secretarial Practice, 3.

# UNIVERSITY OF ALBERTA, EDMONTON

Founded 1906

Telegraphic address—VERA (A.B.C. Code).

VISITOR—His Honour the LIEUTENANT-GOVERNOR OF THE PROVINCE.

CHANCELLOR—Hon. A. C. RUTHERFORD, B.A., LL.D. McG., B.C.L.

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Tor., Chief Justice of Alberta.

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O.I.P., Chev. Lég. d'H., F.R.S.C.

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ASSISTANT REGISTRAR—G. B. TAYLOR, M.Sc.

LIBRARIAN—D. E. CAMERON, M.A. Edin.

BURSAR—ARCHIBALD WEST.

## TEACHING STAFF

### *Accounting*

Winspear, F. G., C.A. Asst. Prof.

Hamilton, R. W., B.Com., C.A.  
Sessional Instr.

### *Agriculture, v. infra*

### *Anatomy*

[Prof.

Revell, D. G., B.A., M.B. Tor.

Shaner, R. F., Ph.D. Harv. Prof.

Greene, E., M.D., C.M. McG.,  
F.R.C.S. Edin., F.A.C.S.

Prof.

### Hon. Demonstrators :

Huckell, R. G., M.D., C.M. McG.

Lobsinger, A. J., M.D. Manit.

Watts, E. H., M.D.

Taylor, C. D., M.D.

Anderson, R. L., M.D., F.R.S.C.

Weinloss, C. H. W., M.D.

Sharf, R. L., D.D.S. Tor.

### *Architecture*

Burgess, C. S., F.R.I.B.A.,  
F.R.A.I.C. Prof.

### *Bacteriology, v. Med.*

### *Bio-Chemistry*

Hunter, G., M.A., B.Sc. (Agric.),

D.Sc. Glas., F.R.S.C. Prof.

Cantor, M. M., B.Sc., M.D. Manit.  
Asst. Prof.

Pett, L. B., M.A., Ph.D. Tor. Lectr.

### *Botany*

Lewis, F. J., D.Sc. Liv., F.R.S.C.,  
F.L.S. Prof.

Moss, E. H., M.A., Ph.D. Tor.  
Assoc. Prof.

Brown, A. B., D.Sc. Edin., M.Sc.  
McG. Lectr.

### *Chemistry*

Shipley, J. W., B.A. Manit., M.A.,  
Ph.D. Harv., F.R.S.C. Prof.

Walker, O. J., B.A. Sask., A.M.  
Harv., Ph.D. McG. Prof.

Sandin, R. B., Ph.D. Chic., M.Sc.  
Assoc. Prof.

Boomer, E. H., B.Sc. Brit. Col.,  
M.Sc., Ph.D. McG., F.R.S.C.

Assoc. Prof.

Stover, N. M., Ph.D. Ill., M.Sc.

Assoc. Prof.

19 Sessional Demrs.

*Classics*

Alexander, W. H., M.A., Tor.

Ph.D. Calif., LL.D., F.R.S.C.

Dean, Fac. Arts & Sci.,  
Prof.

Misener, Geneva, M.A. Qu., Ph.D.

Chic. Prof.

Hardy, W. G., M.A. Tor., Ph.D.

Chic. Prof.

*Dentistry, v. infra*

*Drawing and Descr. Geom.*

Adam, J., M.A. Assoc. Prof.

*Economics, v. Pol. Econ.*

*Education*

Lazerte, M. E., B.A. Tor., Ph.D.

Chic., M.A., B.Educ.

Prof. and Director, Sch.  
of Edn.

Smith, H. E., B.A. Ill., Ph.D. Cal.,

M.A., B.Educ. Assoc. Prof.

20 Demrs.

*Engineering and Industrial Research, v. infra*

*English*

Gordon, R. K., B.A. Ox., M.A.,

Ph.D. Tor.

Prof. and Hd. of Dept.

Jones, J. T., B.A. Ox., M.A.

Asst. Prof.

Tracy, C. R., B.A. Tor., Ph.D.

Yale Lectr.

Mitchell, R., M.A. Lond.

Sessional Lectr.

*Entomology* [Prof.

Strickland, E. H., M.Sc. Harv.

*French and Ger., v. Mod. Langs.*

*Geology*

Allan, J. A., M.Sc. McG., Ph.D.,

M.I.T., F.R.S.C. Prof.

Warren, P. S., B.A., Ph.D. Tor.,

A.R.C.S. Lond., F.R.S.C.

Prof.

Rutherford, R. L., Ph.D. Wisc.,

M.Sc., F.R.S.C. Assoc. Prof.

1 Sessional Asst.

*History*

Smith, G. M., M.C., B.A. Tor.,

M.A. Ox. Prof.

Long, M. H., B.A. McM., M.A. Ox.

Prof.

Collins, R. W., M.A. Acad., Ph.D.

Col., B.D. Union Theol. Sem.

Assoc. Prof.

*Household Economics*

Patrick, Mabel, B.A. Tor., M.A.

Col. Director, Prof.

McIntyre, Hazel, M.S. Ames,

B.Sc. Lectr.

Duggan, Grace L., M.Sc. Chic.,

B.Sc. Instr.

*Law*

Weir, J. A., B.A. Ox., LL.B.

Sask., K.C. Dean.

Ford, Hon. Mr. Justice F., B.C.L.

Trin. Coll. Tor., D.C.L. Tor.

Hon. Prof.

MacIntyre, M. M., B.A. Mt. Allison,

LL.M. Harv. Assoc. Prof.

Tweedie, Hon. Mr. Justice

Special Lectr.

2 Sessional Lectrs.

3 Sessional Instrs.

*Mathematics*

Sheldon, E. W., M.A. McG., Ph.D.

Yale Prof.

Campbell, J. W., M.A. Qu., Ph.D.

Chic., F.R.S.C. Prof.

Cook, A. J., M.A. Harv., Ph.D.

Chic., B.Sc. Assoc. Prof.

Keeping, E. S., B.Sc. Lond., D.I.C.

Asst. Prof.

5 Sessional Assts.

*Medicine, v. infra*

*Modern Languages*

Sonet, E., D. ès L. Rennes, M.A.

(French) Prof.

and Hd. of Dept.

..... Prof.

Owen, F., M.A. Tor., Ph.D. Chic.  
(German) Prof.  
de Savoye, H., B. ès L. Paris, L. en  
Dr., O.I.P.

(French) Asst. Prof.  
Müller, E., M.A. (German) Instr.  
Healy, D. McN., B.A., L. ès L.  
Paris (Romance Langs.) Instr.

#### *Philosophy and Psychology*

MacEachran, J. M., M.A. Qu.,  
Ph.D. Qu. and Leip., LL.D.  
(Philos.) Prof.  
Macdonald, J., M.A., D.Litt.  
Edin. (Philos.) (on leave)  
Prof.  
Smith, D. E., M.A. Qu. (Psych.)  
Sessional Lectr.

#### *Physics*

Smith, S., M.A., B.Sc. Ox.,  
F.R.S.C. (on leave) Prof.  
Lang, R. J., B.A. McM., M.A.,  
Ph.D. Tor., F.R.S.C. Prof.  
Nichols, L. H., B.A. McG., M.A.  
Asst. Prof.  
Gowan, E. H., Ph.D. Ox., B.A.,  
B.Sc. Asst. Prof.

#### *Physiology and Pharmacology*

Downs, A. W., M.A. Phila., M.D.  
Penns., D.Sc. McG. Prof.  
McPhail, M. K., B.A. Brit. Col.,  
Ph.D. McG. Asst. Prof.  
Ferguson, J., B.A. Tor., A.M.  
Stanf. Lectr.  
2 Hon. Demrs.

#### *Political Economy*

Elliott, G. A., M.A. Manit. (on  
leave) Prof.  
Hewetson, H. W., B.A. Tor., M.A.  
B.C. Asst. Prof.  
Stewart, A., M.A. Tor., Ph.D. Edin.  
Lectr.

#### *Zoology*

Rowan, W., D.Sc. Lond.,  
M.B.O.U., F.R.S.C. Prof.  
Hughes, Winifred, M.A. Sask.,  
Ph.D. Chic. Asst. Prof.  
Miller, R. B., B.A. Tor. Fellow.

### **Agriculture**

*Agr. Engineering* [Prof.  
Smith, J. MacG., B.S.A. Manit.

#### *Animal Husbandry*

Sackville, J. P., B.S.A. Tor., M.S.  
Iowa Prof.  
Sinclair, R. D., M.S. Iowa, Ph.D.  
Aberd., B.S.A. Prof.  
Bowstead, J. E., M.Sc., Ph.D.  
Wisc. Assoc. Prof.

#### *Dairying*

Thornton, H. R., Ph.D. Wisc.,  
B.Sc. Prof.

#### *Field Crops*

Neatby, K. W., M.S.A. Sask.,  
Ph.D. Minn. Prof.  
Fryer, J. R., M.A. Tor., Ph.D.  
Calif. Prof.  
Henry, A. W., M.S.A. Sask., Ph.D.  
Minn. (Plant Pathol.)  
Assoc. Prof.

12 Research Assts.

#### *History of Agric.*

Howes, E. A., B.S.A. Tor., D.Sc.  
Laval (Dean, Fac. of Agric.).

#### *Horticulture*

Shoemaker, J. S., B.S.A. Tor.,  
M.S. Iowa State Coll., Ph.D.  
Minn. Prof.

#### *Poultry*

..... Lectr.

#### *Soils*

Wyatt, F. A., B.S.A. Utah, M.S.,  
Ph.D. Ill. Prof.  
Newton, J. D., B.S.A. Macd.,  
Ph.D. Calif. Prof.  
Ignatieff, V., B.Sc. Lond., Ph.D.  
Tor., M.Sc., A.I.C. Lectr.

#### *Veterinary Science*

Talbot, P. R., V.S. Tor., M.D.V.  
Chic. Prof.

**Engineering***Civil & Municipal E.*

- Wilson, R. S. L., B.Sc. McG.  
 (Dean Fac. Applied Sc.) Prof.  
 Robb, C. A., B.Sc. McG., M.S.  
 M.I.T. (Mech. E.) Prof.  
 Morrison, I. F., B.S. M.I.T.  
 (Appl. Mechs.) Prof.  
 Webb, H. R., M.Sc.  
 (Civil E.) Assoc. Prof.  
 Hardy, R. McD., B.Sc. Man., M.Sc.  
 McG., D.L.S. (Civil E.) Lectr.  
 Johnston, A. H., B.Sc. Qu.  
 (Plant Design) Lectr.  
 1 Demr.

*Electrical E.*

- Cullwick, E. G., M.A. Camb.  
 Prof. and Hd. of Dept.  
 Elect. Eng.  
 Cornish, W. E., B.Sc. Manit.,  
 M.Sc. Asst. Prof.  
 Porteous, J. W., M.Sc. Lectr.

*Mining and Metallurgy*

- Pitcher, N. C., B.Sc. McG.  
 (Mining E.) Prof.  
 Lilge, E. O., B.Sc. Instr.

**Industrial Research**

- Stansfield, E., M.Sc. Manc.  
 (Fuels) Prof.  
 Clark, K. A., M.A. McM., Ph.D.  
 Ill. (Road Materials) Prof.  
 Lang, W. A., M.Sc. (Fuels) Asst.  
 Gilbert, K. C., B.A., B.Sc. Manit.,  
 M.Sc. (Fuels) Asst.  
 Kelso, J. A., M.Sc. Qu.  
 Director of Labs. and  
 Prov. Analyst.  
 Noble, C. E., B.A., B.Sc. Asst.

**Medicine**

(for subjects of first 2 yrs.—Anat.,  
 etc., v. *supra*)

*Bacteriology and Hygiene*

- Rankin, A. C., C.M.G., M.D., C.M.,  
 D.P.H. McG., F.R.C.P. Can.  
 Dean Fac. Med. and Prof.

Shaw, R. McL., B.A. Dal., M.D.,  
 C.M., D.P.H. McG., F.R.C.P.  
 Can. Prof.

Simpson, Greta, B.Sc. Instr.  
 2 Demrs.

*Cardiology*

Hurlburt, C. W., M.B. Tor.,  
 F.R.C.P. Can. Clin. Prof.

*Dermatology*

Orr, H., O.B.E., M.B., D.P.H. Tor.,  
 F.R.C.P. Can. Clin. Prof.

*History of Medicine*

Jamieson, H. C., M.B. Tor.,  
 F.R.C.P. Can. (also Med.)  
 Prof.

*Medicine and Clinical Medicine*

Pope, E. L., B.A. Qu., M.D., C.M.  
 McG., F.R.C.P. Can., Lond.  
 Prof.

Jamieson, H. C., M.B. Tor.,  
 F.R.C.P. Can. Assoc. Prof.

Bell, I. R., B.A., M.B. Tor.,  
 F.R.C.P. Can.

(Clin. M.) Asst. Prof.

Scott, W. H., M.D., C.M. McG.,  
 F.R.C.P. Can. Asst. Prof.

Scott, J. W., M.D., C.M. McG.,  
 F.R.C.P. Can. Asst. Prof.

Hamilton, K., B.A. Tor., B.A.,  
 M.B., B.Ch. Ox., F.R.C.P.  
 Can., M.R.C.P. Lond.

(Clin. M.) Lectr.

Instrs. (Clin. Med.) :

Anderson, A. F., M.D., C.M. Manit.

Macpherson, F. S., M.D. Western

1 Demr., 1 Asst. Demr.

*Obstetrics and Gynaecology*

Conn, L. C., M.D., C.M. McG.,  
 F.A.C.S., F.R.C.S. Can.,  
 F.C.O.G. Prof.

Harrison, J. D., M.D., C.M. McG.,  
 F.A.C.S. (Gynæc.)

Assoc. Prof.

Baker, J. O., M.D., C.M. Qu.,  
 F.A.C.S., F.R.C.S. Can.,  
 M.C.O.G. (Obstet.)

Assoc. Prof.

Day, Allan, M.B. Tor. Lectr.

Vant, J. R., B.A., M.D. Manlt.,  
M.C.O.G. Lectr.

1 Demr.

*Ophthalmol. and Oto-Laryngol.*

Wells, R. B., M.B. Tor., F.A.C.S.,  
F.R.C.S. Can.

(Ophthalm.) Clin. Prof.

Jamieson, C. V., M.B. Tor.,  
F.R.C.S. Can.

(Oto-Laryng.) Clin. Prof.

Levey, M. R., M.D., C.M. McG.,  
D.L.O. Engl. Lectr.

2 Demrs.

*Orthopædics*

Mewburn, F. H. H., B.Sc., M.D.,  
C.M. McG., F.R.C.S. Can.

Clin. Prof.

Huckell, R. G., M.D., C.M. McG.  
Lectr.

*Pathology*

Ower, J. J., B.A., M.D., C.M.  
McG., F.R.C.P. Can.

Prof. and Provincial Serologist.

MacGregor, J. W., B.A., M.D.  
Asst. Prof.

3 Demrs.

*Pediatrics*

Leitch, D. B., B.A., M.B. Tor.,  
F.R.C.P. Can. Clin. Prof.

Calder, J., M.D. Instr.

*Pharmacology, v. Physiol.*

*Pharmacy and Mat. Med.*

Dunn, F. A. S., Ph.C. Tor., M.P.S.  
Gr. Bn., M.Sc., F.R.S.A. Prof.

Matthews, A. W., M.Sc.  
Assoc. Prof.

*Psychiatry*

McLean, R. R., M.D., C.M. McG.  
Lectr.

McAlister, W. J., M.D., C.M.  
McG. Instr.

McCullough, D. L., B.A., M.D.,  
B.C.L. Dub., D.P.M. Lond.

Hon. Instr.

*Public Health*

Bow, M. R., B.A., M.D., C.M. Qu.,  
D.P.H. Tor. Assoc. Prof.

Jenkins, R. B., M.D. Manlt.,  
D.P.H. Tor. Lectr.

*Radiology*

Proctor, R., M.D. Manlt. Lectr.

Malcolmson, G. H., B.A., M.D.  
Tor. Hon. Instr.

Mooney, B. R., M.D. Western  
Hon. Instr.

1 Asst. Demr.

*Surgery and Clinical Surgery*

Munroe, A. R., M.D., C.M. McG.,  
F.A.C.S., F.R.C.S. Can.

Prof.

Gray, G. C., M.B. Tor., F.A.C.S.,  
F.R.C.S. Can. Assoc. Prof.

Wilson, W. A., M.D., C.M. McG.,  
F.A.C.S., F.R.C.S. Can.

Assoc. Prof.

Hepburn, H. H., M.D., C.M. McG.,  
F.R.C.S. Edin., F.A.C.S.,  
F.R.C.S. Can. (and Clin. Prof.

Neurol.) Assoc. Prof.

Gillespie, W. F., M.B., M.S. Tor.,  
M.A., F.R.C.S., F.A.C.S. Can.

Assoc. Prof.

Blais, A., M.D., B.S. Laval,  
F.A.C.S. Asst. Prof.

Ellis, N. G., B.A., M.D., C.M. Qu.  
(Urol.) Lectr.

Fife, J. K., M.D., C.M. McG.  
(Clin. Surg.) Asst. Prof.

Greene, E., M.D., C.M. McG.,  
F.R.C.S. Edin., F.A.C.S.,  
F.R.C.S. Can.

(Surg. Anat.) Lectr.

McPherson, J. A., M.B. Tor.  
(Clin. Surg.) Lectr.

Terwillegar, N. L., M.B. Tor.  
(Clin. Surg.) Lectr.

McEachern, I. W. T., M.D., C.M.  
McG., F.A.C.S. Instr.

6 Asst. Demrs.

*Therapeutics*

Bell, I. R., B.A., M.D. Tor.,  
F.R.C.P. Can. Assoc. Prof.

Watts, E. H., B.A., M.D.  
(Anæsthesia) Lectr.

2 Demrs.

**Dentistry**

Bulyea, H. E., D.M.D. Harv.  
 Prof. and Director of Sch.  
 Gilchrist, H. A., D.D.S. Northwn.  
 (Prosthetic D.) Assoc. Prof.  
 Hamilton, W. S., L.D.S., D.D.S.  
 Tor.  
 (Exodontia) Asst. Prof.

**Lecturers :**

Craig, W. P., M.A. Wash. and Jeff.,  
 D.D.S. Northwestern (Oper.  
 D.)  
 Hope, G. J., L.D.S., D.D.S. Tor.  
 (D. Pathol.)  
 Roberts, J. G., L.D.S., D.D.S. Tor.  
 (D. Radiol.)  
 Gemeroy, G. A., L.D.S., D.D.S.  
 Tor. (D. Med.)  
 Mason, A. B., D.D.S. Penn.  
 (Peridontia)  
 Macdonald, T. F., D.D.S. Penn.  
 (D. Ethics) Lectr.  
 Dunsworth, M. M., D.D.S. North-  
 western (D. Econ.) Lectr.

Bradley, R. W., D.D.S. McG.  
 (Oper. D.)

Paterson, A. B., LL.B. (D. Juris.)

**Instructors :**

Mercer, F. S., L.D.S., D.D.S. Tor.  
 (Prosthetic D.)  
 Thurston, G. B., L.D.S., D.D.S.  
 Tor. (Oper. D.)  
 Maclean, H. R., D.D.S. (Oper. D.).

**Demonstrators :**

Lloyd, V. M., L.D.S., D.D.S., B.Sc.  
 Tor. (Oper. D.)  
 Revell, A. M., D.D.S. (Prosthetic  
 D.)

**Physical Education**

Jamieson, J. M. Acting Director.

**Department of Extension**

Corbett, E. A., M.A. McG. (on  
 leave) Director.  
 Cameron, D., B.Sc.  
 Lectr. and Actg. Di-  
 rector.  
 Montgomery, Jessie F., B.A. Libn.

**AFFILIATED INSTITUTIONS**

ST. STEPHEN'S COLLEGE, Theological College of the United Church of Canada, is situated on the University Campus. Principal—Rev. A. S. Tuttle, M.A., D.D. Mt. All., LL.D.

ST. AIDAN'S COLLEGE and Hostel (Anglican)—affiliated 1919. Warden—  
 .....

ST. JOSEPH'S CATHOLIC COLLEGE (Arts). Rector—Rev. Brother Memoriam, B.A. N.Y., M.A. Chic., F.S.C. Affiliated to the Univ. in May 1926 as an Arts Coll. working under the authority of the Senate; occupies a site on the Univ. Campus.

THE PROVINCIAL INSTITUTE OF TECHNOLOGY AND ART, Calgary, operates directly under the authority of the Dept. of Education. Affiliated May 13, 1926. Principal—W. G. Carpenter, B.A., LL.D. McM.

**GENERAL INFORMATION**

For the early history of the University, created by Act of the Legislative Assembly (Alberta), 1906, see *Yearbook* for 1929. In 1919-20 the large post-war increase in the number of medical students necessitated the construction of a new Medical Building. In the same session the creation of the office of Director of the School of Pharmacy completed the evolution of the School from a Dept. under the Fac. of Medicine to an independent unit. Similarly in 1928-1929 Commerce and Household Economics were raised to the status of Schools and provision made for a School of Education, the latter taking over from the Provincial Normal Schools the professional training of Univ. graduates. The

Provincial Legislature has established a close relationship between the Univ. and the Professions, and the Senate has jurisdiction over the educational standards of Architects, Chartered Accountants, Dentists, Engineers, Land Surveyors, Lawyers, Pharmacists, Physicians and Surgeons, Registered Nurses, Optometrists, and Veterinary Surgeons.

The Univ., whose property covers 637 acres, is situated in the city of Edmonton, the capital of the Province of Alberta. The grounds run along the wooded southern bank of the Saskatchewan river and afford ample room for playing fields and the expansion of the building scheme.

**LIBRARY**, 62,000 vols. **LABORATORIES** for all scientific courses; museum (vertebrate palæontology); herbarium; farm; agricultural experimental plots.

**FUEL TESTING LABORATORY.** For the detailed study of the chemical and physical properties of Alberta coals; also for investigating industrial problems such as coking, carbonizing, briquetting, combustion, storage and purification of coal.

**RESEARCH LABORATORIES OF DEPARTMENT OF FIELD CROPS.** These laboratories have been developed during the past 10 years for the investigation of special problems underlying crop production in Western Canada. Progress has been greatly facilitated by grants-in-aid of special researches received from the National Research Council. The programme of investigation covers such important problems as the nature of resistance to frost, drought, and disease; methods of eliminating false wild oats; and factors affecting the milling and baking qualities of wheat.

**FACULTIES.** Arts and Sciences (incl. Schools of Household Econ., Pharmacy, Commerce, and Education); Applied Science (Civil, Mining, Chemical, and Electrical Engineering and Architecture); Medicine (including Dentistry and Nursing); Law; Agriculture.

**MATRICULATION** exams. are conducted in June and Aug., under control of High School and Univ. Matricn. Exams. Board of the Province. Equivalent exams. by recognized authorities in the British Dominions are accepted *pro tanto* for admission.

**DEGREE COURSES.** 3 yrs. (honours, 4 yrs.)—B.A., B.Com., B.Sc. in Arts; B.Sc. in Household Econ., B.Sc. in Pharmacy; 4 yrs.—B.Sc. in Engin. (Civ., Elec., Chem., Mining), B.Sc. in Arch.; 5 yrs.—B.Sc. in Nursing, D.D.S.; 6 yrs.—M.D. Combined degrees: 5 yrs.—B.A. and B.Sc. in Agric., B.A. and LL.B.; 6 yrs.—B.A. and B.Sc. in Engin. or Arch., B.A. or B.Sc. and D.D.S.; 7 yrs.—B.A. or B.Sc. and M.D. B.H.Ec. (Household Econ.) and B.Sc. in Agric. are taken three years after graduation from a Provincial School of Agriculture.

A Bachelor may obtain the M.A. or M.Sc. in from 1-2 yrs. of advanced study or investigation or the B.Educ. in from 2-3 yrs. of advanced study and research. The D.Sc. is conferred for distinction in original research in the field of science. The B.D. is open to B.A. students of affiliated theological colls. on completion of an approved course. The LL.D. is honorary.

**OTHER COURSES.** Licence in Pharmacy, 2 yrs.; Summer Session in co-operation with the Summer School for Teachers conducted by the Provincial Dept. of Educn.; Professional qualification for the Teachers' High School Certificate issued by the Provincial Dept. of Education; 3 mos.' course in P.H. Nursing for Registered Nurses; Provincial Dairy School short courses; 3 yrs.' course for qualification of Regd. Nurse.

**FEES**, tuition per session: Arts (including 1st yr. B.A., B.Sc. in Arts,



B.Sc. in Pharm., B.Sc. in H.Ec.), \$110; B.Com., \$125; Appl. Sc., \$150; Law, \$135; Med., \$150 to \$225; Dent., \$150 to \$235; Agric., \$60 to \$85; Licentiate Pharmacy, \$125 to \$150; B.H.Ec., \$110; Nurs., \$95; Registration, \$3; Students' Union, \$11; Med. Service, \$5; Library, \$5.

RESIDENCE, ETC. 5 Residential Halls (including 2 belonging to affiliated colleges), with accommodation for 525. Fees for room and board for the session, \$210; board only, \$20 per month. Social life is under supervision of the Provost, a Univ. officer. All undergraduates are members of the Students' Union.

UNIVERSITY EXTENSION work includes lectures at local centres, publication of material for debating and public discussion, travelling and packet libraries, and lantern slide and cinema services. The Extension Dept. has its own Radio Broadcasting Station.

PUBLICATIONS. *Calendar* (April); Summer Session *Announcement* (Dec.); *Press Bulletin*, at intervals, by Dept. of Extension; *The Trail*, quarterly, by Alumni Assocn.; *The Gateway*, weekly; *The Evergreen and Gold*, annually, by students.

## THE YEAR 1936-37

BENEFACTIONS. From the Carnegie Corporation, \$10,000 for promotion of appreciation of the fine arts; from the National Research Council, \$10,000 for experimental work in field crops; from United Grain Growers, \$1000 for investigation of field crop problems; from F. W. Berk & Co., Ltd., \$500 for agricultural research; from the Dept. of Agriculture of the Dominion, \$650 for agricultural research; numerous other gifts for various purposes from societies and private persons.

EXTENSION WORK. Lantern slides sent out, 1321 sets; films, 425 sets. Lectures and moving-picture programmes, 111. Travelling library circulation, 26,375. Radio lectures, 558. University Week for Farm Young People. Under the auspices of the dept. a school of Art, Music, and the Drama was held in Banff during August.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. Jas. A. Gibson, guest prof. in Summer Session (Mod. Hist.).

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. R. K. Gordon, Head of Dept. of English, lectures at Summer Session U. of B.C.—“Poetry and Prose of the Romantic Movement.”

RESIGNATIONS. Prof. A. E. Cameron (Metall.); Miss H. I. Milne (Poultry); A. B. Harvey; Dr. J. A. Blezard (Anæsthesia); Dr. C. U. Holmes (Obstet. and Gynæcol.).

HONORARY DEGREES. LL.D.—William Sherwood Fox, Ph.D., D.Litt., LL.D., F.R.S.C. Pres., Univ. of W. Ont.; George William Kerby, B.A., D.D., Principal, Mt. Royal Junr. Coll.

STUDENTS. Full-time: 2069, including 104 graduates. Part-time: 36, including 16 graduates.

DEGREES. B.D., 1; B.A., 126 (1 *ad eundem*); M.A., 12; B.Com., 28; LL.B., 14; B.Sc. Arts, 26; B.Sc. Arch., 2; B.Sc. Chem. Eng., 8; B.Sc. Civil Eng., 6; B.Sc. Elect. Eng., 14; B.Sc. Mining, 12; B.Sc. Agric., 15; B.Sc. Pharm., 5; B.Sc. Househ. Econ., 26; B.Sc. Nurs., 2; M.Sc., 7; M.D., 32; D.D.S., 5; D.Sc., 1; High School Teacher's Certif., 38.

# UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, QUEBEC

Founded 1853

CHANCELLOR—HON. R. A. E. GREENSHIELDS, D.C.L., LL.D., C.J.,  
Superior Court of Quebec.

VICE-CHANCELLOR—REV. A. H. MCGREER, O.B.E., M.C., M.A. Ox.,  
D.D., Principal of the College and Dean of Arts.

REGISTRAR—S. SANDERS, Bursar and Secy. of the College.

## TEACHING STAFF

### *Classics*

Preston, A. W., M.A. Edin., B.A.  
Ox. Lectr.

### *Divinity*

Jones, Rev. B., M.A. Ox., B.A.  
Lond.

Dean of Fac. & Harrold  
Lodge Prof.

### *Education*

Rothney, W. O., M.A. Chic., B.D.,  
Ph.D. Hartf. Prof.

### *English*

Raymond, W. O., M.A., Ph.D.  
Mich. Prof.

Owen, E., M.A. Ox., Ph.D. Harv.  
Lectr.

### *Hebrew and O. Test.*

Moffatt, Rev. E. K., M.A. Lectr.

### *History*

Boothroyd, E. E., M.A. Camb.,  
D.C.L. Prof.

### *Mathematics*

Richardson, A. V., M.A. Camb.,  
D.C.L. Prof.

### *Modern Languages*

Call, F. O., M.A., D.C.L. Prof.  
Kuehner, A. L., M.A. Queen's,  
F.C.I.C. Prof.

### *Natural Science*

Home, M., M.Sc. McGill Asst. Prof.  
Sangford, A. N., M.A. Qu., Ph.D.  
Tor. Lectr.

### *Pastoral Theology*

Scott, Rev. E., M.A. Ox.  
Mountain Prof.

### *Philosophy and Economics*

Burt, Rev. H. C., M.A. Tor. Prof.  
Childs, Rev. S., M.A. Tor. Lectr.

## GENERAL INFORMATION

The College, founded in 1843, was in 1853 by Royal Charter constituted a University with power to confer degrees. It is administered by a Corporation consisting of the Anglican Bishops of the Province and Trustees and Council appointed by them jointly. The Bishops of Montreal and Quebec are President and Vice-President respectively of the Corporation and Visitors of the College.

The College provides ordinary and Honours courses for the B.A. degree, covering 3 yrs., and a 3 yrs.' course for the L.S.T. Divinity is a compulsory subject in each of the years of the ordinary course. Clergymen of the Dioceses of Canada may proceed to the B.A. by examns. without residence if of 6 yrs.' standing, and on a reduced period (1 or 2 yrs.) if of 4 or 2 yrs.' standing.

Examns. are conducted for degrees in Music.

FEES. For tuition, \$150 p.a. for an Arts student ; \$100 p.a. for a Divinity student ; board and furnished lodging with heating and lighting, \$325 p.a.

PUBLICATION. *Calendar* (Oct.).

## THE YEAR 1936-37

BENEFACTIONS. Endowment Fund Campaign : Subscriptions collected, \$357,000.

HONORARY DEGREES. *D.C.L.*—Sir J. Mathius Tellica, LL.D. ; Ven. Archdeacon R. W. E. Wright, M.A. ; Rev. Canon G. H. A. Murray, M.A. ; J. C. Coleman, LL.D., Vice-Pres. Canadian Pacific Rlwy. ; Major-Gen. A. C. L. McNaughton, C.B., C.M.G., D.S.O., B.Sc., LL.D.

STUDENTS. Full-time : 156, including 13 graduates. Part-time : 15 post-graduate.

DEGREES. B.A., 34 ; M.A., 5 ; Mus.Bac., 1 ; L.S.T., 1.

# THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

Founded 1908

Telegraphic Address—UBRICO.

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHANCELLOR—R. E. McKECHNIE, C.B.E., M.D., C.M., LL.D., F.A.C.S.,  
F.R.C.S. Can.

PRESIDENT—LEONARD S. KLINCK, B.S.A. Tor., M.S.A., D.Sc. Iowa,  
LL.D. Westn. Ont., O.I.P.

REGISTRAR—S. W. MATHEWS, M.A. Qu.

LIBRARIAN—J. RIDINGTON.

## TEACHING STAFF

### *Agriculture, v. infra*

#### *Bacteriology and Preventive Medicine*

Dolman, C. E., M.B., B.S., Ph.D.,  
D.P.H. Lond., M.R.C.P.,  
M.R.C.S. Prof.

Duff, D. C. B., M.A., Ph.D. Tor.  
Asst. Prof.

3 Assts.

#### *Botany*

Hutchinson, A. H., M.A. McM.,  
Ph.D. Chic., F.R.S.C. Prof.

Dickson, Frank, B.A. Qu., Ph.D.  
Corn. Assoc. Prof.

Davidson, J., F.L.S., F.B.S.E.  
Assoc. Prof.

Ashton, Miss E. M. R., B.Sc.  
Lond., M.A. Instr.

7 Assts.

#### *Chemistry*

Clark, R. H., M.A. Tor., Ph.D.  
Leip., F.R.S.C. Prof.

Archibald, E. H., B.Sc. Dal., A.M.,  
Ph.D. Harv., F.R.S.E. and C.  
(Anal. C.) Prof.

Seyer, W. F., B.A., M.Sc. Alta.,  
Ph.D. McG. Assoc. Prof.

Marshall, M. J., M.Sc. McG., Ph.D.  
Mass. Inst. Tech. Assoc. Prof.

Ure, W., Ph.D. Cal. Inst. Tech.,  
M.A.Sc. Asst. Prof.

8 Assts.

Harris, J. Allen, Ph.D. Ill., M.A.  
Research Asst.

#### *Classics*

[Prof.

Robertson, L. F., M.A. McG.

Todd, O. J., Ph.D. Harv. Prof.

Logan, H. T., M.C., B.A. McG.,  
M.A. Ox. (on leave) Prof.

Guthrie, P. G. M., B.A. Mani.,  
M.A. Tor. Instr.

3 Assts.

#### *Dairying, v. Agric*

#### *Economics, Polit. Sci., Com- merce and Sociology*

Angus, H. F., B.A. McG., B.C.L.,  
M.A. Ox. Prof.

Carrothers, W. A., D.F.C., B.A.  
Mani., Ph.D. Edin. Prof.

Day, J. F., B.A. Tor., M.A. Chic.  
(Ec. & Com.) Assoc. Prof.

Topping, C. W., B.A. Qu.,  
S.T.D. Wesley Theol. Coll.,  
A.M., Ph.D. Col.

(Ec. & Soc.) Assoc. Prof.

Drummond, G. F., M.A. St. And.,  
M.Sc. (Econ.) Lond. Assoc. Prof.

Lectrs. :  
 Field, F., C.A. (Accountancy)  
 Tupper, R. H. (Comm. Law)  
 5 Assts.

*Education*, v. also Philosophy  
 Weir, G. M., B.A. McG., M.A.  
 Sask., D.Pæd. Queen's (on  
 leave) Prof.  
 Buchanan, Prof. D. (also Maths.)  
 Actg. Hd. of Dept.

Assoc. Profs. :  
 Pilcher, Mrs. J. W., B.A., M.Sc.  
 N.Z., A.M., Ph.D. Stanford.  
 Black, W. G., M.A., Ph.D. Chic.,  
 B.A.  
 Wood, C. B., A.M. Col. Lectr.

*Engineering, Civil*  
 Finlayson, J. N., M.Sc. McG.,  
 M.E.I.C., M.Amer.S. C.E.  
 (Dean of Fac.) Prof.  
 Wilkin, F. A., B.A.Sc. McG.

Assoc. Prof.  
 Finlay, A. H., M.S. in C.E. Ill.,  
 B.A.Sc. Assoc. Prof.  
 Lighthall, A., B.Sc. McG. Asst. Prof.  
 Pretious, E.S., B.A.Sc. Instr.  
 Peebles, A., B.A.Sc., B.A. Instr.  
 Hrennikoff, A., M.A.Sc. Instr.  
 Lash, S. D., M.Sc. Lond., Ph.D.  
 Birm. Instr.  
 Alexander, J. B., B.Sc. N.Br.  
 Hon. Lectr.

1 Asst.

*Engineering, Mech. & Elec.*  
 MacLeod, H. J., B.Sc. McG., M.Sc.  
 Alta., M.A., Ph.D. Harv.,  
 M.E.I.C., F.A.A.S. Prof.  
 Vernon, F. W., B.Sc. (Eng.) Lond.,  
 Wh. Sch., A.F.R.Ae.S.  
 (Mech. E.) Prof.  
 Morgan, S. C., B.S. Qu., M.Sc.  
 Alb. and Calif., I.Tech. (Elect.  
 E.) Assoc. Prof.  
 Coulthard, W. B., B.Sc. Lond.,  
 M.Amer. I.E.E.

(Elect. E.) Asst. Prof.  
 Bell, J. F., O.B.E., R.N., Eng.  
 Capt., M.E.I.C.  
 (Mech. E.) Asst. Prof.

Richmond, S. O., M.S. Pittsb.,  
 B.A.Sc.

(Mech. E.), Asst. Prof.  
 McIlroy, H. M., M.Sc. Qu.  
 Asst. Prof.

4 Assts.

*English*  
 Sedgewick, G. G., B.A. Dal., Ph.D.  
 Harv. Prof.  
 MacDonald, W. L., B.A. Tor., M.A.  
 Wisc., Ph.D. Harv. Prof.  
 Wood, F. G. C., B.A. McG., A.M.  
 Harv. Prof.  
 Larsen, Thorleif, M.A. Tor., B.A.  
 Ox., F.R.S.C. Prof.  
 Dilworth, Ira, B.A. McG., A.M.  
 Harv. Assoc. Prof.  
 Bollert, Miss M. L., M.A. Tor.,  
 A.M. Col. (Dean of Women)  
 Asst. Prof.

Lewis, H. C., M.A. Asst. Prof.  
 Blakey, Dorothy, M.A. Tor. and  
 Brit. Col., Ph.D. Lond. Instr.  
 1 Asst.

*Forestry*  
 ..... Prof.  
 Knapp, F. M., B.S.F. Syracuse,  
 M.S.F. Wash.  
 Assoc. Prof., Actg. Hd. of  
 Dept.

Griffith, Braham B., M.F. Harv.,  
 M.A. Instr.  
 Brown, R. M., B.Sc.F. Tor.  
 (Forest Prod.) Hon. Lectr.  
 Jenkins, J. H., B.A.Sc.

Hon. Lectr.  
 Byers, W. Spec. Lectr.  
 Dixon, L. B. Spec. Lectr.  
 Recknagel, A. B., B.A., M.F.  
 Spec. Lectr.

*French and German*, v. Mod.  
 Langs.

*Geology and Geography*  
 Williams, M. Y., B.Sc. Qu., Ph.D.  
 Yale, F.G.S.A., F.R.S.C.  
 Prof.

Schofield, S. J., M.A., B.Sc. Qu.,  
Ph.D. Mass. I. Tech., F.G.S.A.,  
F.R.S.C.

(Phys. and Struct. Geol.)  
Prof.

Swanson, C. O., Ph.D. Wisc.,  
M.A.Sc. (Miner. and Petrogr.)  
Prof.

Warren, H. V., B.Sc., D.Phil. Ox.,  
B.A., B.A.Sc.

(Miner. and Petrography)  
Asst. Prof.

Davis, G., B.A. Manit., Ph.D.  
Princet., M.A. Instr.

1 Asst.

### *History*

Sage, W. N., B.A., Ph.D. Tor.,  
M.A. Ox. Prof.

Soward, F. H., B.A. Tor., B.Litt.  
Ox. Prof.

Cooke, A. C., B.A. Manit., M.A.  
Ox. Asst. Prof.

Thrupp, Sylvia, Ph.D. Lond.,  
M.A. Instr.

2 Assts.

### *Horticulture, v. Agric. infra*

#### *Mathematics*

Buchanan, D., M.A., LL.D. McM.,  
Ph.D. Chic., F.R.S.C.

(Dean of Fac.) Prof.

Nowlan, F. S., B.A. Acad., A.M.  
Harv., Ph.D. Chic. Prof.

Richardson, L., B.Sc. Lond. Prof.

Gage, W. H., M.A. Assoc. Prof.

Brand, F. J., B.Sc. Ox., B.A.  
Asst. Prof.

Barclay, May, M.A. Instr.  
8 Assts.

### *Mining and Metallurgy* [Prof.

Turnbull, J. M., B.A.Sc. McG.

Gillies, G. A., M.Sc. McG.  
(Mining) Prof.

Forward, F. A., B.A.Sc. Tor.  
Asst. Prof.

Bishop, W. B. (Metal.) Instr.

### *Modern Languages*

Evans, David O., M.A., D.Phil.  
Ox., D. ès L. Paris Prof.

Clark, A. F. B., B.A. Tor., Ph.D.  
Harv., O.A. (French) Prof.

MacInnes, Isabel, M.A. Qu., Ph.D.  
Calif. (German) Assoc. Prof.

Greig, Janet T., B.A. Qu., M.A.,  
O.A. (French) Asst. Prof.

Dallas, Dorothy, D. de l'U. Paris,  
M.A. (French) Asst. Prof.

Tipping, Wessie, D. de l'U. Paris,  
M.A. (French) Asst. Prof.

Hallamore, Joyce, Ph.D. Mun.,  
M.A. (German) Instr.

Kennett, W. T. E., M.A. Princet.,  
B.A. Instr.

2 Assts.

### *Nursing and Health*

Dolman, C. E. (v. Bacteriol.)  
Actg. Hd. of Dept.

Gray, Mabel F., R.N., Cert. P.H.N.  
Simmons Coll. Asst. Prof.

Kerr, Margaret E., R.N., M.A.  
Col., B.A.Sc. Instr.

Amyot, G. F., M.D., D.P.H. Tor.,  
L.M.C.C.

(Prev. Dis. and Epi-  
demiol.) Lectr.

McIntosh, J. W., B.A., M.B.,  
D.P.H. Tor., L.M.C.C.

(Pub. Hlth.) Lectr

Young, Fyvie, R.N., M.A. Col.,  
B.A.Sc. Instr.

### *Philosophy and Psychology*

Coleman, H. T. J., B.A. Tor.,  
Ph.D. Col. Prof.

Pilcher, Mrs. J. W., B.A., M.Sc.  
N.Z., A.M., Ph.D. Stanford

(Psychol. and Edn.) Assoc. Prof.

Morsh, J. E., Ph.D. Johns Hopkins,  
B.A. Lectr.

Wilson, F., B.Sc. Durh., M.A.

### *Physics*

Hebb, T. C., M.A., B.Sc. Dal.,  
Ph.D. Chic. Prof.

Hennings, A. E., M.A. Lake  
Forest Coll., Ill., Ph.D. Chic.

Prof.

Davidson, J. G., B.A. Tor., Ph.D.  
Calif. (on leave) Assoc. Prof.

Shrum, G. M., M.A., Ph.D. Tor.,  
F.R.S.C. Assoc. Prof.  
Crooker, A. M., B.A. McM., Ph.D.  
Tor. Lectr.

6 Assts.

### *Zoology*

Fraser, C. McL., M.A. Tor., Ph.D.  
Iowa, F.R.C.S. Prof.  
Spencer, G. J., B.S.A. Tor., M.S.  
Illinois Assoc. Prof.  
Watney, Mrs. Gertrude M., Ph.D.  
Calif., M.A. Asst. Prof.  
2 Assts.

### *Agriculture*

#### *Agronomy*

Moe, G. G., B.S.A., M.Sc. McG.,  
Ph.D. Cornell Prof.  
Boving, P. A., Cand. Ph. and Agr.  
(Sweden) Prof.  
Laird, D. G., B.S.A. Tor., M.S.,  
Ph.D. Wisc. Assoc. Prof.

#### *Animal Husbandry*

King, H. M., B.S.A. Tor., M.S.  
Oregon Ag. Coll. Prof.  
Wood, S. N., B.S.A. Sask., D.V.M.  
Iowa St. Col. Instr.  
Jervis, J. G., B.V.Sc. Tor., V.S.  
Ont. Vet. Coll. Lectr.

### *Dairying*

Eagles, B., Ph.D. Tor., B.A.  
Prof.  
1 Asst.

### *Horticulture*

Clement, F. M., B.S.A. Tor., M.A.  
Wisc. (Dean of Fac.) Prof.  
Barss, A. F., A.B. Roch., B.S.Agr.  
Corn., M.S. Oreg. Ag. Coll.,  
Ph.D. Chic. Prof.  
Harris, G. H., M.A. Oreg. S. Coll.,  
Ph.D. Calif., B.S.A.  
Asst. Prof.  
Buck, F. E., B.S.A. McG. Lectr.

### *Poultry Husbandry*

Lloyd, E. A., B.S.A. Sask., M.S.A.  
Wash. S. Coll. Prof.  
Biely, J., M.S. Kansas St. Col.,  
M.S.A. Instr.

### *University Extension*

Shrum, G. M., M.A., Ph.D. Tor.  
Director.

### *University Health Service*

Moore, Gertrude E. (Phys. Edn.  
for women) Instr.  
Van Vliet, M. (Phys. Edn. for men)  
Instr.

## AFFILIATED COLLEGES

VICTORIA COLLEGE, Victoria. Affiliated, 1920, for 1st and 2nd years in Arts. Principal—P. H. Elliott, M.Sc. McG., Assoc. Prof. of *Science*, 6 Asst. Profs., 3 Instrs., 1 Asst.

UNION COLLEGE OF BRITISH COLUMBIA, Vancouver (United Church of Canada)—Principal, Rev. J. G. Brown, M.A., D.D.; and THE ANGLICAN THEOLOGICAL COLLEGE OF BRITISH COLUMBIA, Vancouver—Principal, Rev. H. R. Trimpour, M.A., D.D. Tor. Both Colls. were affiliated in 1922.

## GENERAL INFORMATION

The University of British Columbia was incorporated by an Act of 1908. For early history, see *Yearbook* for 1929. The University site consists of 548 acres on the headland of Point Grey, 300 feet above the sea. Here a group of buildings constructed at a cost of nearly \$2,000,000 was opened in Oct. 1925.

The Board of Governors consists of the Chancellor, elected by Convocation, President, and 9 persons—3 elected by the Senate and 6 appointed by the Lieut.-Govr. in Council. The Senate consists of the Chancellor, President (as Chairman), Deans, and 2 Profs. of each Faculty, 3 nominees of the Lieut.-Govr. in Council, principals of normal schools, one member elected by high school

principals and assts., one by each affiliated Coll. in the Province, 15 by Convocation, one by the B.C. Teachers' Federation.

The Univ. is an integral part of the public educational system of the Province, and its function is to complete the work begun in the public and high schools. It is the policy of the Univ. to promote education in general and, in particular, to serve its constituency through three channels—teaching, research, and extension work. It furnishes instruction in the various branches of a liberal education, and in those technical departments which are most directly related to the life and industries of the Province. The people of the Province are informed of the results of special work by the staff of the Univ. through the Department of University Extension.

The LIBRARY has 106,000 vols. and about 15,000 pamphlets, and regularly receives 680 periodicals. It is one of the three Canadian Depositories of the Library of Congress Catalogue, and has recently been the recipient of the Carnegie Corporation Music Set. LABORATORIES available for all courses. A Forest Products Lab. was established in 1918 by the Forestry branch of the Dept. of the Interior as a permanent branch of the F.P. Labs. of Canada, v. App. III. B. 1. HERBARIUM, 16,000 sheets native flora, 200 water-colours B.C. Fungi. BOTANICAL GARDENS, Arboretum and economic section, 5 acres.

FACULTIES. Arts and Science (including Commerce), Applied Science (Civil, Elec., Mech., Forest, Geological, Metallurgical, Mining, and Chemical Engineering, Chemistry, Nursing and Health), Agriculture (including Dairying and Horticulture).

PENSION SCHEME. In 1924 a contributory plan of retiring allowances for members of the teaching staff was adopted, contracts being placed with the Teachers' Insurance and Annuity Assocn. of America. The same year the Univ. was associated with the Carnegie Foundation for the Advancement of Teaching, v. p. 434.

MATRICULATION examns., Junior and Senior, are arranged by the High School and Univ. Matricn. Board of the Province, consisting of members appointed by the Dept. of Education and by the Univ. Every student is submitted to a physical examn. on entrance to the University.

DEGREE COURSES. B.A., 4 yrs. (3 from Senior Matricn.). B.Com., 4 yrs. B.A.Sc. in Applied Science, 5 yrs. (4 from 1st yr. in Arts or Senr. matricn.). B.S.F. (Forestry). B.S.A., 4 yrs. from Junr. matricn. Double course, B.A. and B.A.Sc., 6 yrs. Courses for the M.A., M.A.Sc., and M.S.A.

OTHER COURSES. Short courses in Agric. at the Univ. and elsewhere. 1 yr. course in Public Health for graduate nurses. Occupational course of 1 yr. in Agriculture; Social Service, 3 yrs., leading to diploma. Evening Courses, with summer excursions, in Botany.

SUMMER SESSION. In 1922 the summer school for teachers became the summer session. Teachers and others with full Matricn. standing may pursue Univ. courses and receive credit therefor towards the B.A. degree.

FEES, inclusive for tuition, \$125-\$175 per session. Graduation, \$15.

SCHOLARSHIPS FOR GRADUATES. Two of \$500, one in Chemistry and one in Geology. One each of \$200, \$150, \$125, \$100, \$50. One of 10,000 francs for study in France.

RESIDENCE. Board and lodging in vicinity of the College from \$25 upwards p.m.

PUBLICATIONS. *Requirements for Matriculation*; *Calendar* (April); *Summer Session Announcement of Courses*.



**THE YEAR 1936-37**

**NEW DEVELOPMENTS.** Credit allowed for Music in the Faculty of Arts and Science. Work in Forestry extended.

**CHANGES IN REGULATIONS.** Courses in Second and Third Year, Applied Science (Engineering) revised and requirements for admission to Second Year raised.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Dr. Percy M. Barr (Division of Forestry, Univ. of California), Special Lectr., Sept.-Dec., 1936.

**UNIVERSITY EXTENSION.** The Department of University Extension, developed as a result of the Adult Education activities of the institution and was organized in the session 1936-37. 300 Extension lectures were given by members of the staff at over 100 centres, some of which had to be reached by boat and some after almost a week's journey by rail and automobile.

Facilities for visual education and for the use of study and drama groups have been developed and a start made in the use of radio for University purposes. Attendance at evening classes reached a total of 300, indicating a growing public interest in this extra-mural side of the Univ. Two short courses in the drama were given at Invermere in the Rockies and at Duncan on Vancouver Island, respectively. One short course for study-group leaders was given in June, 1937.

Public forums were encouraged and the Vancouver Institute remains a useful platform for popular exposition of topics of scientific interest.

Extension Library, over 1000 vols. ; in addition to lanterns and equipment there are now more than 80 sets of lantern slides in the loan collection.

Plans are being made for the use in Extension activities of the Carnegie Corporation Music and Art sets.

**RESIGNATIONS.** Prof. H. F. G. Letson (Mech. and Elect. Eng.) ; Prof. E. G. Cullwick (Elect. Eng.) ; R. England, Director of Univ. Extension and Assoc. Prof. Econ.

**STUDENTS.** Full-time : 2112, including 224 graduates. Part-time : 243, Short Courses : Summer Session, 1936, 566. Occup. Course (Agr.), 6 ; Public Health Nursing, 25 ; Botany, 56 ; Extra-Sessional Classes, 74 ; Directed Reading Course, 113 ; Social Service, 32.

**DEGREES.** B.A., 229 ; M.A., 31 ; B.Com., 29 ; B.A.Sc., 53 ; M.A.Sc., 6 ; B.S.A., 16 ; M.S.A., 10.

# DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA

Founded 1821

With which is affiliated King's College

CHAIRMAN OF THE BOARD OF GOVERNORS—JAMES MCG. STEWART, B.A.,  
LL.B., K.C.

PRESIDENT OF THE UNIVERSITY—CARLETON W. STANLEY, B.A. Tor.,  
M.A. Ox., Litt.D. Colo., LL.D. Tor. and Maine, F.R.S.C.

REGISTRAR—.....

## TEACHING STAFF

### *Anatomy*

Mainland, D., M.B., Ch.B., D.Sc.  
Edin. Campbell Prof.  
Saunders, R. L., M.B. Edin.

Asst. Prof.

Holland, C. W., B.A., M.D., C.M.  
Demr.

Graham, J. V., M.D., C.M.,  
F.A.C.S. Demr.

Noble, J. A., B.A. Acad., M.B.,  
Ch.B., F.R.C.S. Edin. Demr.

Jones, C. M., M.D., C.M. Demr.

### *Biblical Literature*

Watson, W. G., B.A. Tor., D.D.  
Vic. Lectr.

### *Bio-Chemistry, v. Fisheries, and v. Med. infra*

### *Biology*

Bell, H. P., Ph.D. Tor., M.Sc.  
Prof.

Hayes, F. R., B.Sc., Ph.D. Liv.,  
M.Sc. Assoc. Prof.

Pelluet, Dixie, M.A. Tor., M.A.,  
Ph.D. Bryn Mawr Asst. Prof.

Dore, W. G., B.A. Qu., M.Sc.  
McG. Special Lectr.

Hollett, A., B.Sc. Stud. Asst.

### *Chemistry*

[McLeod Prof.  
Nickerson, C. B., A.M. Clark

King, H. S., A.B., Ph.D. Harv.

Assoc. Prof.

Coffin, C. C., M.Sc., Ph.D. McG.,  
B.A., F.R.S.C. Assoc. Prof.

Todd, E. W., B.A. Instr.

Thurlow, J. L. M., B.Sc. Demr.

Maddock, F. B., B.Sc. Demr.

Topp, A. C., B.Sc. Demr.

### *Classics*

Nichols, E. W., Ph.D. Yale, M.A.  
McLeod Prof.

Griffin, A. K., M.A. Tor. and Ox.,  
Ph.D. Tor. Prof. (K.).

Pearson, L., B.A. Ox. Assoc. Prof.

Logan, J. W., M.A. Lectr.

### *Commerce*

..... Black Prof.  
Egan, H. J., B.A., B.Com., C.A.

Asst.

Evans, R. D., M.A., B.Com. Asst.

### *Dentistry, v. infra*

### *Economics and Sociology*

Maxwell, W. R., M.A. Harv., B.A.  
Assoc. Prof. (K.).

Prince, Rev. S. H., M.A. Tor.,  
Ph.D. Col. Assoc. Prof. (K.)

### *Education*

Fletcher, B. A., M.A. Brist., B.Sc.  
Lond. O. E. Smith Prof.

(K.) = King's College.

*Engineering*

Copp, W. P., B.A. Ac., B.Sc. McG.,  
M.E.I.C. Prof.  
Theakston, H. R., B.Sc. (Mining)  
N.S.T.C. Prof.

*Engl. Lang. and Lit.*

Bennet, C. L., M.A. Camb., A.M.  
Harv. Munro Prof.  
Martin, J. B., M.A. Tor., Ph.D.  
Harv. Assoc. Prof. (K.).  
Jewitt, A. R., M.A. Ox., Ph.D.  
Cornell, B.A.  
Assoc. Prof. (K.).

*Fine Arts*

Falconer, J. W., M.A. Edin., D.D.  
Knox Lectr.

*Fisheries*

Leim, A. H., B.A., Ph.D. Tor.  
(Zool.) Assoc. Prof.  
Finn, D. B., M.Sc. Manc., Ph.D.  
Camb., F.C.I.C.  
(Bio-Chem.) Assoc. Prof.  
Beatty, S. A., M.A. Qu., Ph.D.  
McG.  
(Bio-Chem.) Assoc. Prof.  
Hess, E., M.A. Qu., Ph.D. McG.  
(Bacteriol.) Asst. Prof.  
Cooper, D. Le B., Ph.D. McG.,  
M.Sc. (Chem.) Lectr.

*Geology*

Douglas, G. V., M.C., M.Sc. McG.,  
F.G.S. Carnegie Prof.  
MacLean, J. H., B.Sc. Stud. Asst.

*History*

[Munro Prof.  
Wilson, G. E., M.A. Qu., Ph.D. Harv.  
Walker, Rev. A. S., M.A. Leeds and  
Birm., B.Litt. Ox. Prof. (K.).  
Harvey, D. C., M.A. Ox., B.A.,  
F.R.S.C. (Can. Hist.) Lectr.

*Law, v. infra**Mathematical Physics*

Henderson, G. H., Ph.D. Camb.,  
M.A., B.Sc., F.R.S.C.  
Prof. (K.).

*Mathematics*

Macneill, M., M.A. Harv., B.A.  
Prof.  
Adshead, J. G., M.A. Camb.  
Assoc. Prof. (K.).  
Walmsley, C., M.A. Camb.  
Assoc. Prof.

*Medicine and Surgery, v. infra*  
*Modern Languages*

Gautheron, F. R., Ag. des L. Paris,  
Chev. Lég. d.H.  
McLeod Prof.  
Richter, L., Dr. jur., Dr. rer. pol.  
Breslau (German) Prof.  
Mercer, C. H., M.A., B.Com.  
Manc. Assoc. Prof.  
du Vernet, G. S., B.A. King's,  
M.A. St. F. X. and Tor.  
(French and Spanish)  
Lectr. (K.).

*Music*

Dean, H., A.R.C.O., R.C.M. Leip-  
zig Lectr.  
McKinley, C. Examiner.

*Philosophy*

[Munro Prof.  
Stewart, H. L., M.A. N.U.I. and  
Ox., Ph.D. N.U.I., F.R.S.C.

*Physics*

Bronson, H. L., B.A., Ph.D. Yale,  
F.R.S.C. Munro Prof.  
Johnstone, J. H. L., M.B.E., Ph.D.  
Yale, M.Sc. O. E. Smith Prof.

*MacGregor Fellows :*

Downing, J. R., B.A. Mt.A.  
MacHattie, L. E., B.Sc.  
Ross, D. S., B.Sc. Demr.  
MacHattie, L. B., B.Sc. Demr.

*Physiology*

Weld, C. B., M.A. Brit. Col., M.D.,  
C.M. Tor. Prof.  
Grant, Rhoda, M.A., Ph.D. McG.  
Asst.  
Reid, J. W., M.D., C.M., M.R.C.P.  
Demr.  
Grant, K. M., B.Sc., M.D., C.M.  
Demr.

*Political Science*

MacKay, R. A., B.A. Tor., Ph.D.  
 Princ. (on leave) Dennis Prof  
 Reid, E. M., B.A. Tor., M.A. Ox.  
 Interim Prof.

*Psychology*

Page, F. H., M.A. Tor.  
 Assoc. Prof. (K.).

*Law**Bankruptcy*

Walker, J. A., M.A. C.U.A., LL.B.,  
 K.C. Lectr.

*Contracts, Equity, Corporations,  
Mortgages*

Curtis, G. F., B.A., B.C.L. Ox.,  
 LL.B. Sask. Assoc. Prof.

*Evidence*

Doull, Hon. John, B.A., LL.B.  
 Lectr.

*Hist. Engl. Law* [Lectr.]

Godfrey, J. W., B.C.L. Ox., B.A.

*Insurance*

Jones, F. H. M., B.A., LL.B. Lectr.  
 MacKay, N. E., B.A., LL.B.  
 Harv., K.C. Lectr.

*Procedure*

Rutledge, J. E., B.A., LL.B.,  
 K.C. Lectr.  
 Smith, C. B., K.C. Lectr.

*Property, Conflict of Laws,  
Legislation, Equity*

Willis, J., B.A. Ox. Munro Prof.

*Property, Crimes, Bills and  
Notes, International L.*

Cowan, G. S., B.A., B.C.L. Ox.,  
 LL.B. Asst. Prof.

*Shipping* [Lectr.]

Burchell, C. J., M.A., LL.B., K.C.  
 Smith, F. D., K.C. Lectr.

*Torts, Sales, Agency, Constitutional L.*

MacDonald, V. C., B.A., LL.B.,  
 K.C. Weldon Memorial Prof.

## Special Lecturers in Law :

Chisholm, Sir Joseph, B.A. St. F.  
 X., LL.D. St. F. X. and Dal.  
 (Legal Ethics).  
 Milner, F. L., K.C. (Conveyan-  
 cing).  
 Stewart, J. McG., B.A., LL.B.,  
 K.C. (Corporation Financing).  
 Godfrey, J. W., B.C.L. Ox., B.A.  
 (Foreclosure of Mortgages).  
 Graham, Hon. R. H., B.A., LL.B.  
 (Divorce Court Practice).  
 Roper, J. S., M.A., LL.B., K.C.  
 (Public Utility Practice).

*Medicine*

(for subjects of the first 2 yrs.—  
 Anat., etc., v. *supra*)

*Anæsthetics*

Lessel, J. F., M.D., C.M. Demr.  
 Muir, W. L., M.D., C.M. McG.  
 Demr.

*Bacteriology, v. Pathology**Bio-Chemistry*

Young, E. G., B.A., M.Sc. McG.,  
 Ph.D. Camb., F.R.S.C. Prof.  
 Heard, R. D. H., M.A. Tor., Ph.D.  
 Manc. Asst. Prof.

*Dermatology, v. Urol. and Der-  
matol.**Ear, Nose, and Throat*

Doull, A. E., M.D., C.M. McG.,  
 F.A.C.S., F.R.C.S.Can. Prof.  
 Schwartz, H. W., M.D., C.M.  
 Asst. Prof.

Doull, A. E., Jr., M.D., C.M. Demr.

*Epidemiology*

McLean, A. L., C.P.H., J. Hop.,  
 M.D., C.M. Prof.  
 Peabody, Jean A., B.A. N. Bruns.  
 Statis. Asst.

Trefry, Marjorie E. Asst.

*Eye, Diseases of the, etc.*

Cunningham, A. R., B.A., M.D.,  
 C.M., F.A.C.S. Assoc. Prof.  
 Kirkpatrick, H. W., M.D., C.M.  
 Demr.

Stoddard, R. H., M.D., C.M.

Demr.

*Gynæcology*, v. Obst.

*Histology and Embryology*

Bean, R. J., M.S. N.H. Prof.

Bean, Elizabeth S., B.A. Cinn.,  
M.A., Ph.D. Wis. Instr.

Coward, N. B., M.D., C.M. (Histol.)  
Demr.

*Hygiene and Public Health*

Forrest, W. D., B.Sc., M.D., C.M.  
Lectr.

Trefry, Marjorie E. (Hyg.) Asst.

*Materia Medica*

Burbidge, G. A. Lectr.

*Medical Jurispr.*

Woodbury, Prof. F. V. (v. Den-  
tistry) Lectr.

*Medicine and Clin. Med.*

MacKenzie, K. A., M.D., C.M.,  
F.R.C.P. Can. Prof.

Carney, M. J., M.D., C.M. McG.,  
B.A., F.R.C.P.C.

(Clin. Med.) Asst. Prof.

Corston, J. R., B.A., M.D., C.M.,  
F.R.C.P. Can. Asst. Prof.

Lecturers :

Sieniewicz, T. M., M.D., C.M.

Holland, C. W., B.A., M.D., C.M.

Burns, G. R., M.D., C.M.

Miller, A. F., M.D., C.M.,  
F.R.C.P.C. (Med.)

Reid, J. W., M.D., C.M., M.R.C.P.  
Lond.

Demrs. in Clin. Med. :

Merritt, J. W., M.D., C.M.

Rankine, J., B.A., M.D., C.M.

MacIntosh, J. W., M.D., C.M.

Morton, A. R., M.D., C.M.

*Mental Diseases*

..... Prof.

Demrs. :

Morton, A. R., M.D., C.M.

MacKay, R. W. M., M.D., C.M.

MacIntosh, J. W., M.D., C.M.

*Obst. and Dis. of Women and  
Children*

MacLellan, E. K., M.D., C.M.,  
F.R.C.S. Can., F.C.O.G.

(Obstet.) Prof. and (Pract.  
Obstet.) Demr.

Atlee, H. B., M.D., C.M., F.R.C.S.  
Edin. and Can.

(Obstet. and Gyn.) Prof.  
and (Pract. Obstet.)  
Demr.

Macdonald, P. A., M.D., C.M.  
McG. (Practical O.)

Demr. and Chief of Clinic.

Colwell, W. G., M.D., C.M.

(Clin. Gynæc. and Pract.  
Obstet.) Lectr.

Grant, K. M., B.Sc., M.D., C.M.

Lectr. and (Clin. Gynæc.)  
Demr.

*Pathology and Bacteriology*

Smith, R. P., M.D., Ch.B. Glas.,  
D.P.H. Glas. and Edin. Prof.

Taylor, C. W., M.B., Ch B. Birm.  
(Path.) Interim Asst. Prof.

Holland, C. W., B.A., M.D., C.M.  
Demr.

Gosse, N. H., M.D., C.M., F.A.C.S.  
(Path.) Demr.

*Pediatrics*

[Prof.]

Carney, M. J. (also Clin. Med.)

Wiswell, G. B., B.A., M.D., C.M.  
Asst. Prof.

Campbell, J. G. D., M.D., C.M.

Demr.

Coward, N. B., M.D., C.M. Demr.

*Pharmacology*

Dreyer, N. B., B.A. Cape, M.A.  
Ox., M.R.C.S. Eng., L.R.C.P.  
Lond. Prof.

*Preventive Medicine*

Grant, H. G., M.D., C.M., M.R.C.S.,  
L.R.C.P. Lond. Prof.

*Psychology v. supra.*

*Radiology*

Johnston, S. R., M.D., C.M.

Lectr. and Demr.

*Surgery and Clin. Surg.*

- MacDonald, H. K., M.D., C.M.  
McG., F.R.C.S. Can. Prof.  
MacDougall, J. G., M.D., C.M.  
McG., F.R.C.S. Can., F.A.C.S.  
Prof.  
Murphy, G. H., M.D., C.M.,  
F.R.C.S. Can., F.A.C.S. Prof.  
Curry, W. A., M.D., C.M. McG.,  
F.R.C.S. Eng. Asst. Prof.

## Lectrs. in Surg. and Clin. S. :

- Kinley, C. E., M.D., C.M., F.A.C.S.  
Mader, V. O., M.D., C.M. McG.  
Gosse, N. H., M.D., C.M., F.A.C.S.

## Demrs. in Clin. S. :

- Weatherbe, P., M.B., Ch.B. Edin.,  
F.A.C.S.  
O'Brien, H. D., B.A., M.D., C.M.,  
F.A.C.S.  
Acker, T. B., M.D., C.M.  
Acker, J. C., M.D., C.M. McG.  
Murphy, A. L., M.D., C.M.  
Ross, E. F., B.Sc., M.D., C.M.  
Noble, J. A., B.A. Acad., M.B.,  
Ch.B., F.R.C.S. Edin.  
Bethune, C. M., B.Sc., M.D., C.M.  
Marshall, A. M., M.D., C.M.

*Urology*

- Mack, F. G., M.B. Tor., B.A.,  
F.R.C.S. Can. Prof.  
Winfield, G. A., B.Sc., M.D., C.M.  
Demr.

**Dentistry**

- Bagnall, J. S., D.D.S., F.A.A.R.D.  
Prof.

*Crown and Bridge Work, etc.*

- Oxner, W. C., D.D.S., B.C.D.S.  
Prof.  
Faulkner, A. W., D.D.S., F.A.C.D.  
Lectr.

*D. Anatomy, etc.*

- Ritchie, S. G., B.A. N. Bruns.,  
D.M.D., T.D.C. Prof.

*D. History, Jurisprudence, Ethics,  
and Economics*

- Crosby, H. S., D.D.S. Lectr.

*D. Pathology and Therap.*

- Haverstock, A. B., D.D.S., B.Sc.  
(Dent.) Tor. Lectr.

*Drawing, Modelling, and Metal-  
craft*

- Adams, Ellen E. O. Lectr.

*Exodontia and Radiology*

- Hennigar, G. R., D.D.S. Md. Prof.

*Materia Medica*

- Woodbury, K. F., D.D.S. Lectr.

*Metallurgy*

- Bagnall, Prof. J. S. Lectr.  
Dawson, W. G., D.D.S. Demr.

*Operative D.*

- [Prof.  
Beckwith, W. H. H., D.D.S. Penn.  
Chudleigh, G. A., D.D.S., B.C.D.S.  
Lectr.

- Dobson, John W., D.D.S.  
Demr. in Operative In-  
firmary.

*Oral Surg., Anæsth., and Physical  
Diagnosis*

- Woodbury, F. V., M.D., C.M.,  
L.R.C.S. and L.R.C.P. Edin.,  
L.F.P.S. Glas. Prof.  
Noble, J. A., B.A. Acad., M.B.,  
Ch.B., F.R.C.S. Edin. Lectr.

*Orthodontics*

- Woodbury, W. W., B.Sc., D.D.S.,  
P.D.C. Prof.

*Prosthetic D.*

- Ritchie, S. G., B.A., N. Bruns.,  
D.M.D., T.D.C. Prof.  
Bagnall, Prof. J. S. Prof.  
Climo, C. B. H., D.D.S. Lectr.  
Gardner, O. Tech.

**Physical Education**

- Korning, Sven A. Instr.

**Pre-School Age Clinic**

- Haverstock, A. B., D.D.S., B.Sc.  
(Dent.) Tor. Demr.

**Adult Clinic**

- Lubetsky, I. K., D.D.S. Demr.  
Hogan, W. V., D.D.S. Demr.  
Hennigar, G. R., D.D.S. Md. Demr.  
Duxbury, F. R., D.D.S. Demr.

## ASSOCIATED AND AFFILIATED INSTITUTIONS

UNIVERSITY OF KING'S COLLEGE, v. *infra*.

PINE HILL DIVINITY HALL, Halifax. Classes and examns. in Hebrew and in New Testament Greek at Pine Hill are recognized as qualifying for the B.A. Students may complete the Div. course at the Coll. and take the B.A. in 6 yrs. Confers the degree B.D. Principal, Rev. Clarence MacKinnon, M.A., D.D., LL.D. 3 other Profs.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Students holding certain certifs. of the Coll. enter the 1st or 2nd yr. of the B.A. course. Principal, S. N. Robertson, M.A., LL.D.

MEMORIAL UNIVERSITY COLLEGE, St. John's, Newfoundland. Students who have completed the regular course of Memorial Univ. Coll. are admitted to the Arts and Science course without further examn., and may receive credit in classes of the 1st and 2nd yrs. President, A. G. Hatcher, M.A., LL.D.

HALIFAX CONSERVATORY OF MUSIC. Courses recognized for Mus.B. and Lic.Mus.

HALIFAX LADIES' COLLEGE. Students who have completed the regular course and received the Matriculation Diploma are admitted to the Arts course without further examn. The teaching in Household Science is recognized as part of the qualification for the Univ. diploma in that department. Principal, Miss E. F. Blackwood, B.A.

MARITIME COLLEGE OF PHARMACY. Courses recognized as part of the qualifications for B.Sc. Dean, G. A. Burbidge.

BIOLOGICAL BOARD OF CANADA. Classes in Fisheries recognized for M.Sc.

CONVENT OF THE SACRED HEART (Mother Superior, Rev. Mother Hughes) AND MOUNT ST. VINCENT COLLEGE (Mother General, Rev. Mother Mary Louise). Recognized for Advanced Standing in 1st and 2nd years in Arts.

## GENERAL INFORMATION

Dalhousie College, founded in 1818 by the Earl of Dalhousie, was in 1841 granted Univ. powers. For early history, see *Yearbook* for 1929.

Appointments to the Board of Governors are made by the Govr. in Council on the nomination of the Board.

LIBRARIES. 75,000 catalogued vols. and other books and pamphlets. Access also to Science Library—96,000 vols. and pamphlets; Legislative—31,500 vols.; Theol.—25,000 vols. and pamphlets; Nova Scotia Barristers' Society Library—13,500; Citizens' Free Library—37,200 vols. and pamphlets. MUSEUMS: Ornith., Zool. PUBLIC ARCHIVES OF NOVA SCOTIA. LABORATORIES: Physics, Chem., Geol., Biol., Engin., Anat., Bio-Chem., Physiol., Histol., Path., Pharm.

FACULTIES. Arts and Science (including Commerce, Music, Pharmacy, Fisheries, Engineering, Education, and Household Science); Law; Medicine; Dentistry.

MATRICULATION requirements are articulated to the High School system of the Province, which covers the last 4 years of the Public School 12-year course. The compulsory subjects for admission to the B.A. and LL.B. courses are (1) English, (2) Latin or Greek, (3) Algebra, (4) Geometry, (5) French or German or a lang. not offered in (2), (6 and 7), any two of Hist., Physics, Chem., Bot., Music, Trigonometry, or another Foreign lang.; B.Sc. and B.Com.—(1), (2) French or German, (3), (4), (5) Latin or Greek, or a language not offered in

(2), (6) Physics, or Chem., or Bot., (7) one not offered of Hist., Physics, Chem., Bot., Music, Trigonometry, or another foreign lang. ; B.Mus.—As for B.A. or B.Sc., both French and German are recommended ; M.D., C.M. and D.D.S.—As for B.A. or B.Sc., including Latin.

**DEGREE COURSES.** 4 yrs.—B.A., B.Sc., B.Com. ; 3 yrs.—LL.B., Mus.B. ; 4 yrs.—D.D.S. ; 5 yrs.—M.D., C.M. (taken together) ; 4 yrs. (following practical experience)—B.Sc. (Phm.) ; the first 3 yrs. of the Engin. course (v. p. 434). The M.D., C.M., and D.D.S. can be reached by concurrent courses in 8 yrs. The M.A. or M.Sc. is given on successful completion of an approved 1-yr. course of study by a B.A. or B.Sc., respectively, of an approved Univ.

In addition to the ordinary course in Arts and Science and the Honour Courses in certain subjects and groups of subjects, four-year Advanced courses are provided in Classics, Mathematics, Modern Languages and History.

**DIPLOMA COURSES.** Education, 1 yr. ; candidates must have received the B.A. or B.Sc. degree from a college or Univ. recognized by the Senate. Lic. Mus., 2 yrs. Music, Pharmacy and Household Science courses are taken in the Affiliated Institutions, v. *supra*.

**FEES.** For tuition, for each class (ex. lab. or draughting-room or Commerce class), \$25 ; draughting-room class, or Commerce class, \$35 ; Lab. classes, \$35 to \$50. Composition for tuition in Law, \$250 p.a. ; Med., \$275 p.a. ; Dent., \$250 p.a.

**SCHOLARSHIPS FOR GRADUATES.** \$500 Resident Fellowship for Women ; \$1500 Travelling Fellowship for Women ; Macgregor Fellowships in Physics.

**LOAN AND AID FUNDS** for students have been instituted.

**RESIDENCE.** Hostel for 100 women students, erected at a cost of \$400,000.

**PUBLICATIONS.** *Calendar* (May) ; *Annual Report* (Aug.) ; *Gazette* (Oct.-Mar.) ; *Dalhousie Review*, quarterly ; *Dalhousie Medical Journal* (Undergraduate) ; *Public Affairs*, quarterly.

## THE YEAR 1936-37

**BENEFACTIONS.** \$64,783.

**NEW DEVELOPMENTS.** An Institute of Public Affairs has been formed, in which professors of the Faculties of Arts, Law and Medicine co-operate. Regional Scholarships—36 in number—of value \$5400.

**RESIGNATIONS.** Dr. G. A. McCurdy (Path.) ; Prof. J. M. MacDonald (Commerce).

**DEATHS.** Hector McInnes, K.C., Chairman of Board of Governors ; H.E. Mahon and Dougald Macgillivray, LL.D., Members of Board.

**HONORARY DEGREES.** LL.D.—Rt. Hon. Lord Thankerton of Thankerton, P.C., Lord of Appeal in Ordinary ; Rt. Hon. Sir Lyman Poore Duff, P.C., Chief Justice of Canada ; Hon. Sir Joseph Chisholm, M.A., LL.B., LL.D., Chief Justice of Nova Scotia ; George H. Montgomery, B.C.L., D.C.L., K.C., President, Canadian Bar Assn. ; Francis William Gray, Dominion Steel and Coal Corporation, Ltd., Sydney, N.S. ; Ven. Fenwick Williams Vroom, M.A., D.D., D.C.L., Archdeacon of Nova Scotia, late Dean of Divinity, Univ. of King's College, Halifax, N.S. ; Robert Hamilton Coats, B.A., LL.D., Dominion Statistician, Ottawa.

**STUDENTS.** Full-time : 845, including 28 graduates. Part-time : 27.

**DEGREES.** B.A., 61 ; M.A., 8 ; B.Com., 10 ; LL.B., 26 ; B.Sc., 23 ; M.Sc., 5 ; M.D., C.M., 28 ; D.D.S., 16 ; LL.D., 3. Diplomas : Engin., 8 ; Pharmacy, 4 ; Education, 16 ; Music, 1.



# UNIVERSITY OF KING'S COLLEGE, HALIFAX, NOVA SCOTIA

Founded 1802

(Associated with Dalhousie University.)

*Postal Address*—King's College, Halifax, N.S.

PATRON—THE ARCHBISHOP OF CANTERBURY.

VISITOR AND CHAIRMAN OF THE BOARD OF GOVERNORS—THE BISHOP OF  
NOVA SCOTIA.

VICE-CHAIRMAN OF THE BOARD OF GOVERNORS—THE ARCHBISHOP OF  
FREDERICTON.

CHANCELLOR—THE BISHOP OF NOVA SCOTIA.

PRESIDENT AND VICE-CHANCELLOR—REV. A. STANLEY WALKER, M.A.  
Leeds and Birm., B.Litt. Ox.

REGISTRAR—REV. T. H. HUNT, M.A., D.D. Vind.

BURSAR AND DEAN OF RESIDENCE—R. L. NIXON, M.Sc. Vind.

DEAN OF WOMEN—MISS ELIZABETH E. HOOD, B.A.

*Divinity*—Holmes, Rev. J. H. A., M.A., B.D., D.D. Vind. (Dogmatics, Liturgies, Eccl. Polity and Ch. Hist.), Dean; Hunt, Rev. T. H., M.A., D.D. Vind. (Hebrew, Gk. Test., Patristics), Alexandra Prof.; Prince, Rev. S. H., M.A. Tor., Ph.D. Col. (Apologetics and Comp. Religion), Lectr.; The President (Pastoral Theol., Homiletics and English Bible), Owen Lectr.; Walker, Rev. A. S., M.A. Birm. and Leeds, B.Litt. Ox. (Ch. Hist.), Lectr.; Hiltz, Rev. R. A., M.A., D.C.L. Vind. (Relig. Educn.), Lectr.

For *Classics, Economics and Sociol., English, History, Maths., Math. Physics, Mod. Langs., and Psychol.*, see Dalhousie Univ. staff list.

## GENERAL INFORMATION

Opened in 1789 at Windsor, N.S., the College was established with full University powers by Royal Charter in 1802. In Sept. 1923, the Univ. removed to Halifax and became associated with Dalhousie Univ. (*see* p. 433). The staffs in Arts of the two Univs. are combined in one faculty. The first year courses are given independently to the students of Dalhousie and of King's; but with this exception students of both institutions follow on equal terms the same courses leading to the same degrees. King's holds in abeyance her degree-conferring power in Arts and Science, but retains complete control of her Divinity School as well as of her present endowments, administration of residences, etc. Under the terms of the agreement between Dalhousie and King's, the College was established in Halifax by means of public and other subscrip-

tions and with the financial aid of the Carnegie Corporation. The new buildings, value \$450,000, were opened for the session 1930-31. The Univ. is governed by a Board consisting of the Bishops of the dioceses of Nova Scotia and Fredericton and the President of the Univ. *ex officio*, together with 10 members elected by the Alumni Assocn. and 8 elected by each of the diocesan Synods.

Students from the JAMAICA CHURCH THEOLOGICAL COLLEGE who, after a residence of six terms there, pass the required exams. in the subjects of the Divinity course at King's, may receive the diploma of L.S.T.

PUBLICATION. *Calendar* (June).

## THE YEAR 1936-37

RETIREMENT. Rev. Dr. A. H. Moore, President.

STUDENTS. Full-time : 91, including 11 graduates.

# LAVAL UNIVERSITY, QUEBEC

Founded 1852

VISITOR AND CHANCELLOR APOSTOLIC—THE ROMAN CATHOLIC ARCH-BISHOP OF QUEBEC, His Eminence Cardinal JEAN-MARIE RODRIGUE VILLENEUVE, D.D.

RECTOR—Mgr. CAMILLE ROY, P.A., M.A., D.Litt., President of la Corporation du Séminaire de Québec.

SECRETARY OF THE UNIVERSITY AND MODERATOR—Prof. ARTHUR MAHEUX, D.D., M. ès A., L. ès L. Paris,

## TEACHING STAFF

### *Accounting*

Boulanger, M., B.A., C.A.  
Asst. Prof.

### *Agriculture*

Asst. Profs. :

Jean, F. X., B.A., Ph.L., M.Sc.  
Cornell.

Gagné, Chs., B.Agr., M.Sc. Cornell.

Bouchard, Georges, B.A., D.Litt.

Sirois, Albert, B.Agr.

Fortin, L. de G., B.Agr.

Giasson, A.

Dupuis, L., LL.B.

Campagna, E., B.A., B.Agr.

Rodrigue, W., B.Agr.

Proulx, M., B.A., B.Agr.

Lallemant, J., B.A., B.Agr.

Scott, A., M.Agr.

St. Pierre, M., B.A.

Dupré, A., M.D.

Berubé, Louis.

Tardif, A.

Bernier, P.-E.

Gaudette, G.

St. Pierre, J.

Bossé, G.

Lagloire, P.

Berard, H.

Boisvert, O.

Pelletier, R.

*Anatomy. v Med.*

### *Apologetics*

Pâquet, Mgr. L. A., B.A., D.Th.,  
F.R.S.C. Prof.

### *Astronomy, Practical*

Smith, A., M.A. Prof.

Benoit, R., B.A., Lic.D. Prof.

### *Bio-Chemistry*

Bois, E., D.Sc. Frib. Prof.

### *Biology, v. also Physics, Biological*

Tremblay, J.-L., B.A., D.Sc.  
Asst. Prof.

### *Botany*

Robitaille, A., M.A. Prof.

Rousseau, Z., B. Arp. Asst. Prof.

### *Chemistry, Analytical*

Vachon, Rev. A., M.A., Lic.Ph.,  
L.Th. Prof.

### *Chemistry, General*

Fillion, Mgr. Ph. J., M. ès A. Prof.

### *Chemistry, Inorganic*

Gagnon, P., D.Sc. Paris, D.Ph.  
Prof.

### *Chemistry, Medical*

Gingras, Dr. R. Asst. Prof.

Marcoux, H. Asst. Prof.

<i>Chemistry, Organic</i>			<i>Forest Law</i>	
Risi, L., D.Sc. Frib.	Prof.		Richard, L. A., D. en Dr.	Prof.
<i>Chemistry, Physical</i>			Lussier, O., B.A., Lic.LL.	Prof.
Cloutier, L., D.Sc.	Prof.		<i>French Lang. and Lit.</i> , v. also Modern Langs.	
<i>Classics*</i>			Aubert, A., B.A. (Fr. Lang.)	Prof.
Labrie, A., B.A., Lic. ès L. Paris	Prof.		Geoffrion, A. P., B.A., B.LL., D. ès L. (Hist. of Fr. Lang.)	Prof.
Lechevalier, J., Agrégé des L. (France) (Latin Lang.)	Asst. Prof.		Laliberté, M., M.A., L. ès L. Sor- bonne (Fr. Lit.)	Prof.
Beaudry, E.	Prof.		Roy, Mgr. C., L. ès L. Sorbonne (Fr. Canadian Lit.)	Prof.
Lebel, M., L.Litt., M.A.	Asst. Prof.		Maheux, A., M.A., L. ès L., Dipl. Philol. Paris, D.D. (Oratory)	Prof.
Bégin, E., B.A., Lic. ès L.	Asst. Prof.		Viatte, A., Ph.D. Frib., D. ès L. Sorbonne	Asst. Prof.
Talbot, L., B.A., Lic Litt.	Prof.		<i>Geology and Mineralogy</i>	
<i>Commerce, v. Law</i>			Faessler, C., D. ès Sc. Frib.	Prof.
<i>Dentistry, v. Med.</i>			Laverdière, W., Lic. ès Sc. Phys., M.A., D. ès Sc. Nat. Lille.	Prof.
<i>Ecclesiastical History</i>			Dufresne, A.-O., B.Sc., M.Sc. McG.	Prof.
Gignac, Mgr. J., D.D.	Prof.		<i>History (General)</i>	
Gosselin, Mgr. A. E., M.A.	Prof.		Savard, G.	Prof.
<i>Economics, v. Social and Polit. Econ.</i>			<i>History of Canada</i>	
<i>Elocution</i> [Asst. Prof.]			.....	Prof.
Rivard, Hon. A., M.A., D. en Dr., D. ès L., K.St.Gr., O.I.P.†			<i>History of Catholic Church in Canada</i>	
<i>English</i>			Gosselin, Mgr. A. E., M.A.	Prof.
Cannon, W., M.A.	Prof.		<i>Law, v. infra</i>	
Belleau, Jos., B.A., LL.L.	Prof.		<i>Mathematics</i>	
Abel, G., B.A.	Asst. Prof.		Tremblay, A., M.A.	Prof.
<i>Entomology</i>			Pouliot, A., B.Sc.Ap., Lic. ès Sc. Paris, M.A.	Prof.
Maheux, G., M.A., Ing.For., Lic. ès Sc. Agr. Montréal	Prof.		Hamel, Ed., B.A., B. ès Sc.Ap.	Prof.
<i>Forestry</i>			Bergeron, O., M. ès A.	Prof.
Bédard, A., M.A., Ing.For.	Prof.		Boutin, F., B.A.	Asst. Prof.
Roy, H., B.A., Ing.For.	Prof.		Laliberté, L., B.A.	Asst. Prof.
Bourget, M. A., Ing.For.	Prof.		Savary, R., B.Ar., Ing.For.	Asst. Prof.
Guay, E., B.A., Ing.For.	Asst. Prof.		Larue, A.	Asst. Prof.

\* Excluding affiliated Classical Colleges.

† Judge, High Court:

*Medicine, v. infra**Modern Languages*

Belleau, J., B.A., LL.L. Prof.

*Music*

[Prof.]

Pelletier, Canon J. R., Mus.D.

Desrochers, P. C. Prof.

Gagnon, Henri Prof.

Talbot, R., B.Sc., Mus.D. Prof.

Tardif, A., B.A. Prof.

Destroismaisons, L., B.A. Prof.

Bernier, A., Mus.D. Wash. Prof.

Asst. Profs. :

Vézina, Raoul

Roy, Berthe

Vallières, H.

Mercure, H.

Gravel, L.

St. Hilaire, A.

Darisse, G.

Beudet, J.-M.

Lapointe, P.-Chs.

Montreuil, A., D.Mus.

Payment, Jules, B.A.

Gervais, G., B.A.

*Pedagogy*

Roy, Mgr. C., L.L., M.A., Ph.D.,

Litt.D., O. Lég. d'H. Prof.

Dion, R. P. A. Asst. Prof.

*Philosophy*Lebon, Mgr. W., D.D., M.A.,  
D.Phil. Prof.Ferland, J., B.A., Lic.Phil., D.D.  
Prof.Déchéne, G., B.A., Lic.Ph., D.D.  
Prof.Robert, A., M.A., L. en Econ.  
Louv., D.D. Prof.Grenier, H., B.A., D.Phil., D.  
Canon Law, D.D. Prof.de Koninck, Chs., D.Ph. Louvain  
Prof.Parent, A. - M., B.A., Lic.Phil.,  
D.D. Prof.

Asst. Profs. :

Roy, M., D.Phil., D.D.

Gaudreault, P.-M., D.Ph., D.D.

Castonguay, L., B.A., D.D.

Edmond, Fr.

*Physics*

Benoit, R., B.A., Lic.Ph. Prof.

Ouellet, C., D.Sc. Asst. Prof.

*Physics, Biological*

Gravel, Lucien, B.A., D.Sc.

Asst. Prof.

*Physiology, v. Med.**Religion*

Genest, O., B. ès L. Prof.

Gautier, Y. Prof.

*Social and Political Econ.*

Grégoire, E., Lic. en droit, Sc.

Econ. et Soc., Sc. pol. et dip.

Louv. Prof.

Bilodeau, E., B.A., LL.L.

Asst. Prof.

*Social Science*

Asst. Profs. :

Dorion, Jules.

Magnan, C.-J.

Archambault, J. Papin.

Pelland, Léo, LL.L., Lic.Ph.

Grégoire, J. E.

L'Heureux, Eug.

Vandry, F.

Hamel, Oscar.

Leblond, W., M.D.

Guimont, P.-N., B.A., L.Comm.

*Surveying*

Joncas, P., Ing.Civ., B. ès Sc.Ap.,

M.Can. Soc. C.E. (Building

and S.) Prof.

Massé, A., B.Arp., Ing.For.

Asst. Prof.

*Theology, v. also Hist. of  
Catholic Church*

Profs. :

Pâquet, Mgr. L. A., B.A., D.Th.,  
F.R.S.C.

Gagnon, C., D.Th.

Gignac, Mgr. J., D.Th., D. en Dr.

Can., Rome (Canon Law).

Vandry, F., D.D., Lic.Ph., B.A.

Garant, C. O., L.Ph., D.Th. (Holy  
Script. and Orient. Langs.).

Lemieux, E., B.A., Lic.Phil., D.D.

Roy, M., B.A., D.D., D.Phil.  
Bureau, A., B.A., Lic.Phil., D.D.,  
D. Canon Law.

Asst. Profs.:

Audet, L.  
Mathiot, H.  
Pelletier, L.  
Crépault, P.-E.  
Larochelle, J.

*Zoology*

Robitaille, A., M.A. Prof.

**Law**

v. also Accounting

*Admin., Const., and Munic. L.*

Sirois, J., D. en Dr. Prof.  
Duval, A., Lic.LL. Prof.

*Civil L.*

Roy, F., D. en Dr., Magistrate,  
O.I.P. Prof.

Gagné, J.-A., D. en Dr., K.C. Prof.  
Hudon, G., B.A., LL.L. Asst. Prof.

*Commerc. and Marit. Law*

Gravel, J., D. en Dr., K.C. Prof.

*Criminal Law*

Taschereau, R., B. ès L., LL.L. Prof.

*History of Law*

St. Laurent, L., D. en Dr., K.C. Prof.

Pelland, Léo, LL.L., Lic.Ph. Prof.

*International Law*

Langlais, Ant., B.A., LL.L. Prof.

*Municipal Law*

Prévost, J. A., D. en Dr., K.C.\* Prof.

*Procedure, Civil*

Moraud, Lucien, B.A., LL.L.\*† Prof.

Asst. Profs.:

Choquette, F., LL.L., K.C.  
Rivard, A., LL.L., K.C.

\* Judge, Superior Court.

*Roman Law*

Desrivières, E., D. en Dr. Prof.

**Medicine**

*Anatomy, Descriptive*

Garneau, P., M.D. Prof.  
Paquet, Albert Prof.

*Anatomy, Pathological*

Vallée, A., M.D. (Dir. of P.A. and  
Bact. Labs.) Prof.

*Anat. and Oper. Med., Pract.*

Paquet, Achille, M.D. Prof.

*Bacteriology*

Morin, E., M.D. Prof.

*Biology*

Potvin, R., M.D. Prof.  
Giroux, M. Asst.

*Contagious Diseases, Clinics*

Martin, V., M.D. Prof.

*Dentistry*

Langlois, A., D.Dent. Prof.  
Gaudreau, S., D.Dent. Prof.  
Hamel, P., D.Dent. Prof.

*Dermatology*

Mayrand, R., M.D. Prof.  
Gaumond, E. Asst.

*Dietetics*

Nodeau, H., M.D. Asst. Prof.

*Electrotherapy*

Gosselin, J. Asst. Prof.

*Gynæcology and Gyn., Clin.*

Caouette, J., M.D. Prof.  
Gagnon, F., M.D. Prof.  
Garant, O. Asst. Prof.

*Hygiene, Mental*

Miller, J.-C. Asst. Prof.

*Hygiene, Public*

Couillard, E., M.D. Prof.

† Member of Senate of Canada.

<i>Laryngology</i>		<i>Pathology, Internal</i>	
Dussault, N. A., M.D. (Rhino-Lar., etc.)	Prof.	Fortier, E., M.D.	Prof.
Vaillancourt, J., M.D.	Prof.	<i>Pediatrics, etc.</i>	
<i>Legal Medicine</i>		Lapointe, D.	Asst. Prof.
Desrochers, G., M.D.	Prof.	<i>Pharmacy</i>	
<i>Materia Medica</i>		Marquis, A., Lic.Pharm.	Prof.
Cliche, E., D.Pharm. Paris, B.Pharm.	Asst. Prof.	Demers, U., Lic.Pharm.	Asst. Prof.
<i>Medical Ethics</i>		<i>Physiol. and Chem.</i>	
Gagnon, C., D.D.	Prof.	Blanchet, R.	Prof.
<i>Medicine, Clinical</i>		Gingras, R.	Asst.
Caron, S., M.D.	Prof.	<i>Physiotherapy</i>	
Jobin, J.-B., M.D.	Prof.	Mayrand, R., M.D.	Prof.
Lemieux, R.	Prof.	Perron, E., M.D.	Prof.
Racine, G., M.D.	Asst. Prof.	Gaumont, Emile, M.D.	Asst. Prof.
Leblond, S.	Asst. Prof.	<i>Surgery, Clinical</i>	
<i>Mental Diseases</i>		Dagneau, C., M.D.	Prof.
Desrochers, G., M.D.	Asst. Prof.	Vézina, C., M.D.	Prof.
Caron, S., M.A.	Asst. Prof.	Roy, S., M.D.	Prof.
Larue, L., M.D.	Asst. Prof.	Paquet, A., M.D.	Prof.
<i>Ophth. and Ot. Clin., etc.</i>		Garneau, P., M.D.	Prof.
Dussault, N. A., M.D.	Prof.	Petitclerc, L., M.D.	Asst. Prof.
Pichette, H., M.D.	Prof.	Lavergne, N., M.D.	Asst. Prof.
Painchaud, P.	Asst. Prof.	Trempe, F., M.D.	Asst. Prof.
<i>Pathology, Ext. and Clin. Surg.</i>		Roger, J. P., M.D.	Asst. Prof.
Dagneau, C., M.D., O.I.P.	Prof.	<i>Therapeutics</i>	[Asst. Prof.]
<i>Pathology, General</i>		Lessard, R., M.D.	Laval and Paris
Berger, L., M.D. Stras.	Prof.	<i>Tuberculosis, Clinics</i>	
Desmeules, R., M.D.	Prof.	Desmeules, R., M.D.	Prof.

## ANNEXED OR AFFILIATED INSTITUTIONS

["Annexion" implies absolute control by the Univ. of the programmes of study and of the nomination of the staff. "Affiliation" or—in the case of an institution outside the province of Quebec—"agrégation" involves control by the Univ. of examinations.]

ÉCOLE D'ARPENTAGE ET DE GÉNIE FORESTIER (Surveying and Forestry). Founded by Govt. and affiliated to the Faculty of Arts. Director, Avila Bédard, Prof. of Forestry. 16 other Profs.

ÉCOLE AGRICOLE DE STE. ANNE DE LA POCATIÈRE, affiliated. Director, Prof. H. Bois. 23 other Profs.

ÉCOLE SUPÉRIEURE DE CHIMIE. Affiliated to the Faculty of Arts. Director, Rev. A. Vachon. 13 other Profs.

ÉCOLE NORMALE SUPÉRIEURE. Affiliated to the Faculty of Arts. Director, Mgr. Camille Roy. Section of Letters, 6 Profs.; Section of Sciences, 11 Profs.

ÉCOLE DE MUSIQUE. Affiliated to the Faculty of Arts with a special Dept. for Sacred Music, and 60 affiliated Schools. Director, R. Talbot. 23 other Profs.

ÉCOLE DE PHARMACIE. Affiliated to the Faculty of Arts. Director, J. A. Marquis. 7 other Profs.

ÉCOLES DE GARDES-MALADES. 13 Schools affiliated.

ÉCOLE DE SCIENCES SOCIALES. Director, A. Robert, 14 other Profs.

ENSEIGNEMENT MOYEN COMMERCIAL (2 Sch. affil.); ENSEIGNEMENT CLASSIQUE (5 Sch. for Girls affil.; Sch. for Boys: 16 affil. and 2 agrégées). Numerous institutions are affiliated to the Univ. under conditions providing for complete preparation for the Baccalauréat ès Arts (B.A.).

ENSEIGNEMENT CLASSIQUE, 1st degree (*High School*), 6 Schools affiliated.

ÉCOLE DE COMMERCE. 1 School affiliated.

ENSEIGNEMENT PÉDAGOGIQUE. 2 Schools affiliated.

ENSEIGNEMENT PRIMAIRE. 67 Schools affiliated.

## GENERAL INFORMATION

The Univ. was founded by the Seminary of Quebec in 1852 under a Royal Charter. A general supervision of teaching and discipline is exercised by the Archbishop of Québec as Visitor and Chancellor Apostolic and President of the Conseil Supérieur of Archbishops and Bishops of the Province, except those of the ecclesiastical province of Montreal. The Profs. of the Faculty of Theology are nominated by the Visitor, those of other Faculties by the Conseil de l'Université, composed of the Directors of the Seminary of Quebec and 3 Senior Profs. of each Faculty.

LIBRARIES, General, 221,322 vols.; others, 473,676 vols. MUSEUMS AND DIRECTORS: Paintings, Mgr. F. Pelletier; Ethnology and Religion, G.-E. Demers; Numismatics, A. Aubert; Physics, R. Benoit; Geology and Mineralogy, W. Laverdière; Botany, A. Robitaille; Zoology, R. Dolbec; Ornithology, G. Laugelier; Entomology, G. Maheux; General Anatomy, P. Garneau; Pathological Anatomy, A. Vallée; Forestry, A. Bédard; Conchyliology, R. Dolbec; Coins, A. Aubert. LABORATORIES: Chem., Phys., Bact., Biol., Physiol., Anat., Pathol., Clinic., Physio-pathol., Bio-Chem., Botany, Mineral, Geology, Optic.

FACULTIES. Arts (with Schools of Surveying and Forestry, Chemistry and Training for Teachers, etc., annexed), Theology, Law, Medicine, Philosophy.

DEGREES, DIPLOMAS AND TEACHING ACTIVITIES. The Univ. perpetuates the stages by which a Degree was, and still is, reached in the Univ. of Paris. The Baccalauréat (B. ès A., etc.) is not the equivalent of any of the English Degrees, but is an official certificate (recognized by the Govt.) that the student has successfully completed his literary and scientific studies, and is entitled to begin his professional studies in law, medicine, or applied science, or the Higher studies. It is obtained before he leaves the affiliated Institute, Seminary, or College at which he has studied. Students who reach a certain standard in both letters and Sciences obtain the B. ès A. After the B.A. the student may proceed to the Baccalauréat in Theology (3 yrs.); in Philosophy (2 yrs.); in Civil Law (3 yrs.); in Music (2 yrs.); in Pharmacy (3 yrs.); in Surveying (2 yrs.); in Agriculture (3 yrs.); in Medicine (2 yrs.); in Commerce (2 yrs.); in Applied Sciences (4 yrs.). The course for the Licence covers 3 yrs. in Philos.



(L. en Ph.); 2 yrs. in Letters (L. ès L.); 3 yrs. in Sciences (M.A.); 3 yrs. in Law (L. en Dr.); 4 yrs. in Theol. (L. en Th.); 2 yrs. in Music. To obtain the Doctorate it is necessary to support successfully in public a thesis and propositions as in French Univs. The D. en M. or M.D. is granted after examn.

The Diploma in Forestry implies 3 yrs.' study in the Sch. of Surveying and Forestry.

The École de Chimie provides a 4 yrs.' course leading to the Baccalauréat in Applied Sciences, or to a Licence and to a Doctorate in Sciences.

The Faculty of Arts includes instruction for the following: doctorate, licence, baccalauréat, and diplomas and certificates of the secondary (College of Arts, High School) and the primary degree, with a view to promote among all classes of the population a desire for learning and an encouragement to proceed from lower to higher degrees.

The Univ. has granted affiliation to about 70 private schools for boys and girls. At the age of 12 yrs. the children may choose between the primary course with three levels: middle (*moyen*, 2 yrs.); upper (*supérieur*, 2 yrs.) and *supplementary* (1 yr.), a certificate being granted, after univ. examn., for each level; and the classical course of the first degree (High School, 4 yrs.), with a certificate of proficiency after the first, the second and the third year, and a diploma of matriculation at the end of the fourth year. The main difference between the two courses is the teaching of Latin, and the advanced teaching of mathematics and of history, in the High Schools.

The High School course is given in Schools limited to such course, or in Colleges and "Séminaires," which give, after the High School course, the teaching usual in Colleges of Arts. In these last Institutions Greek is taught for 4 yrs.; philosophy (theory, history, essays) for 2 yrs.; Latin for 6 yrs.

RECOGNITION of the B. ès A. of Laval is accorded by the Univs. of Rome, of France and of Louvain, and by Canadian Univs., and some of those of the U.S.A.

FEES for tuition, \$100 to \$185 p.a., with an extra charge for students other than Canadian.

SCHOLARSHIP OPEN TO GRADUATES. \$400 p.a. for 2 years.

PUBLICATIONS. *Annuaire général* (July), *Special Calendars*, for Law, Medicine, Chemistry, Forestry, Pharmacy, Philosophy, Nursing, Music, and École Normale Supérieure; *Le Canada Français* (Literary Review), *Le Laval médical*, *Le Bulletin de la Société de Géographie*, *Le Naturaliste Canadien*. Students' weekly paper, *Hebdo-Laval* (Oct. to May).

## THE YEAR 1936-37

EXTRA-MURAL WORK. Summer courses in French, Pedagogy, Music, Mathematics.

RETIREMENTS. Rev. Mgr. F. Pelletier (Gk. Lit.), retired as a member of the University Council. Dr. A. Jobin (Pediatrics, etc.), retired from active professorship. Both are emeriti.

STUDENTS. Full-time: 8873, including 214 graduates. Part-time: 2632, including 110 graduates.

DEGREES. *Divinity*, Bacc. 12, Lic. 13; *Arts*, B.A., 251; M.A., 5; *Laws*, Bacc. 7, Lic. 26; *Science*, Lic. 6; Doct. 1; *Applied Sciences*, Bacc. 5; *Medicine*, Bacc. 55, Doct. 40; *Letters*, Lic. 3; *Agriculture*, Bacc. 22, Lic. 10; *Surveying*, Bacc. 3; *Nursing*, Bacc. 0; *Pharmacy*, Bacc. 8; *Music*, Bacc. 13; DIPLOMAS: *Letters*, 1; *Forestry*, 3; *Commerce*, 165; *Social Sciences*, 8; *Nursing*, 53; *Music*, 84; *Household Science*, 29; *Mod. Languages*, 1; *Matriculation*, 224. CERTIFICATES: *Music*, 194.

# McGILL UNIVERSITY, MONTREAL

Founded 1821

VISITOR—H.E. The GOVERNOR-GENERAL OF CANADA.

CHANCELLOR—Sir EDWARD W. BEATTY, G.B.E., LL.D., D.C.L., K.C.

PRINCIPAL AND VICE-CHANCELLOR—L. W. DOUGLAS, B.A., LL.D.

SECRETARY AND BURSAR—F. O. STREDDER, M.A., Ph.D.

REGISTRAR—T. H. MATTHEWS, M.A.

LIBRARIAN—G. R. LOMER, M.A., Ph.D., F.L.A.

HON. REPRESENTATIVE IN GREAT BRITAIN—W. A. BULKELEY-EVANS,  
C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C.4.

## INCORPORATED COLLEGES

MACDONALD COLLEGE, at Ste. Anne de Bellevue (about 25 miles from Montreal), including Faculty of Agric., School for Teachers, and School of Household Science.

ROYAL VICTORIA COLLEGE, Montreal (the Women's College of the Univ.).  
Warden—Mrs. W. Grant.

## TEACHING STAFF

*Accountancy* [Prof.  
Thompson, R.R., M.C., V.D., A.C.A.  
(Engl. & Wales), C.A. Can.  
Ballantyne, A., C.A. Lectr.  
Elderkin, C. F., B.Com., C.A.  
Lectr.  
Gowan, A. A., C.A. Lectr.  
Jones, T. P., C.A. Lectr.  
MacKenzie, G. I., B.Sc. Lectr.  
Patton, D. R., B.Com., C.A. Lectr.  
Seymour, P. F., C.A. Lectr.  
Tucker, L. A., C.A. Lectr.  
Young, D., C.A. Lectr.  
2 Demrs.

*Agriculture*, v. *infra* Macdonald  
College

*Anatomy*  
Martin, C. P., M.A., M.B., Ch.B.,  
B.A.O., Sc.D. Dub.  
Reford Prof.  
O'Brien, H. D., B.A., M.D. Dublin  
Asst. Prof.  
6 Demrs.

*Architecture*  
Traquair, R., M.A., F.R.I.B.A.  
Macdonald Prof.  
Nobbs, P. E., M.A. Edin.,  
F.R.I.B.A. (Design) Prof.  
Turner, P. J., F.R.I.B.A. Prof.  
Chambers, F. P., M.A. Camb.  
Asst. Prof.  
3 Demrs.

*Bio-Chemistry*  
Collip, J. B., M.A., Ph.D. Tor.,  
M.D., D.Sc. Alb. and Harv.,  
LL.D. Manit., F.R.S.C.,  
F.R.S. Prof.  
Thomson, D. L., M.A., B.Sc.  
Aberd., Ph.D. Camb., F.R.S.C.  
Prof.

Selye, H., M.D., Ph.D. Prag.  
Asst. Prof.  
Denstedt, O. F., B.Sc. Manit.,  
Ph.D. Lectr.  
2 Demrs.

*Botany*  
Scarath, G. W., M.A. Edin., D.Sc.,  
F.R.S.C. Macdonald Prof.

Gibbs, R. D., M.Sc., Ph.D. Lond.  
Asst. Prof.

2 Demrs.

*Chemistry*

Maass, O., M.Sc., Ph.D. Harv.,  
F.R.S.C.

(Phys. C.) Macdonald Prof.

Hibbert, H., LL.D. Brit. Col., D.Sc.

Manc., Ph.D. Leip., F.R.S.C.

(Indust. and Cellulose C.)

E. B. Eddy Prof.

Hatcher, W. H., M.Sc., Ph.D.,

F.R.S.C. Prof.

Steacie, E. W. R., M.Sc., Ph.D.,

F.R.S.C. Assoc. Prof.

Asst. Profs.:

Mennie, J. H., M.A. Br. Col., B.Sc.  
Ox., Ph.D.

Barnes, W. H., M.Sc., Ph.D.

Phillips, J. B., M.Sc., Ph.D.

Stevens, P. G., A.B., Ph.D. Harv.

Holden, J. H., S.M. Mass. Inst.

Tech. Sessional Lectr.

Horwood, J. F., B.Sc. Dal., M.Sc.,

Ph.D. Sessional Lectr.

Nichols, R. V. V., M.Sc., Ph.D.

Sessional Lectr.

17 Demrs., 3 Graduate Assts.

*Classics*

Woodhead, W. D., B.A. Ox., Ph.D.

Chic. Mills Prof.

Carruthers, C. H., B.A. Ox., M.A.

Tor., Ph.D. Chic.

(Class. Philol.) Prof.

Thompson, A. M., M.A. Qu., Ph.D.

Harv. Assoc. Prof.

McCullagh, P. F., M.A. Asst. Prof.

Counsell, E. M., B.A. Ox. Lectr.

*Commerce*, v. also Acctcy., Law

Sugars, R. M., M.A. Dub.

Dir. of School and Prof.

(Spanish).

*Dentistry*, v. *infra*

*Economics and Political Science*

Hemmeon, J. C., M.A., Ph.D.

Harv. Angus Prof.

Day, J. P., B.A., B.Sc. Lond.,  
D.Phil. St. And. Prof.

Culliton, J., M.A. Asst. Prof.

Marsh, L. C., B.Sc.(Econ.) Lond.,

M.A., F.S.S. Lectr.

Forsey, E., M.A. Ox. and McG.

Sessional Lectr.

2 Graduate Fellows.

*Education*, v. also Macdonald

Coll. *infra*

Hughes, J., M.A. Wales

Macdonald Prof.

Southam, H. D., D.Ped. Tor.

Asst. Prof.

George, A. R., B.A. Brist., B.D.

Lond. Sessional Lectr.

*Embryology*, v. Histol. and

Embryol.

*Engineering*, v. *infra*

*English Lang. and Lit.*

Macmillan, Hon. C., M.A. McG.

and Harv., Ph.D. Harv.

Molson Prof.

Files, H. G., M.A., Ph.D. Harv.

Assoc. Prof.

Noad, A. S., M.A. Asst. Prof.

Newton, T. F. M., M.A. McGill and

Harv. Asst. Prof.

Mackenzie, Mary E., B.A. Dal.

Lectr.

MacGachen, Freda, M.A. Lectr.

5 Assts.

*French*

[Prof.

du Roure, R., Agrégél'U. de France

Lemaitre, G. E., D. ès L. Paris

Assoc. Prof.

Furness, Mrs. Lucie T., L. ès L.

Univ. de France Asst. Prof.

d'Hautserve, L., M.A. Asst. Prof.

Henry, Mlle. C. Asst. Prof.

McAndrew, W. A. G., B.A. Tor.,

D. de l'U. Paris

Sessional Lectr.

*Genetics*

Huskins, C. L., B.S.A., M.Sc. Alb.,

Ph.D., D.Sc. Lond., F.R.S.C.

Prof.

Sheldon, C. Reed, B.A. Dartmouth, Ph.D. Harv. Lectr.  
2 Assts.

*Geology*

O'Neill, J. J., M.Sc., Ph.D. Yale, F.R.S.C. Dawson Prof.  
Graham, R. P. D., B.A. Ox., D.Sc., F.R.S.C. (Mineral) Prof.  
Clark, T. H., Ph.D. Harv., F.R.S.C. (Palæont.) Logan Prof.  
Gill, J. E., Ph.D. Princeton Asst. Prof.  
Osborne, F. Fitz, M.A.Sc. Brit. Col., Ph.D. Yale Asst. Prof.

*German*

Graff, W. L., Ph.D. Lov. Assoc. Prof.  
Meyer, Bertha, M.A. Lectr.  
2 Assts.

*Histology and Embryology*

Simpson, J. C., B.Sc., LL.D. Mt. All. Prof.  
Rawlinson, H. E., M.Sc., M.D. Asst. Prof.  
Fisk, W. M., M.D., C.M. (Histol.) Lectr.  
Bowie, D. J., B.Sc., M.A., Ph.D. Tor. (Histol.) Lectr.  
1 Demr.

*History*

[Prof.]  
Fryer, C. E., M.A., Ph.D. Harv.  
Adair, E. R., B.A. Lond., M.A. Camb. Assoc. Prof.  
Bayley, C. C., M.A. Manc. Lectr.  
Cooper, J. I., M.A. W. Ont. Sessional Lectr.  
1 Asst.

*Household Science*, v. Macdonald  
Coll. *infra*

*Law*, v. *infra*

*Library School*

Lomer, G. R., M.A., Ph.D. Col., F.L.A. Director and Prof.  
5 Assts.

*Logic*, v. *Philos.*

*Mathematics*

MacLean, N. B., D.S.O., M.A. Tor., Ph.D. Chic. (Appl. M.) Prof.  
Sullivan, C. T., B.A. Dal., Ph.D. Chic., D.Sc., F.R.S.C. (Pure M.) Redpath Prof.  
Gillson, A. H. S., B.A. Camb. Prof.  
Williams, W. L. G., M.A. Ox., Ph.D. Chic., F.R.S.C. Prof.  
Tate, H., B.Sc. N.U.I., M.A. Dub. Assoc. Prof.  
Wood, F. M., B.Sc., M.A. (Civ. Eng. and Applied Mechs.) Asst. Prof.  
Pall, G., M.A. Tor., Ph.D. Chic. Asst. Prof.  
Craig, Carleton, B.A., M.Eng. Lectr.  
Ross, W. B., M.Sc., Ph.D. Sessional Lectr.

*Medicine*, v. *infra*

*Mineralogy*

Graham, R. P. D., B.A. Ox., D.Sc., F.R.S.C. Prof.

*Mining*, v. *Engineering infra*

*Music*

Clarke, D., M.A., Mus.B. Camb., F.R.C.O., F.R.C.M. Dean of Fac. and Dir. of Conservatorium.  
Cooper, I., Mus.Bac. (Harmony and Counterpoint) Lectr.  
Weatherseed, J. J., A.R.C.O. (Form and Hist. of M.) Lectr.

24 Assts.

*Nursing*

Lindeburgh, Marion, R.N., B.S. Col. Actg. Director of School.  
13 Lectrs. and Instrs. (part-time).

*Philosophy* [Macdonald Prof.]

Hendel, Jr., C. W., Litt.B., Ph.D.  
Princet. (Moral Ph.)

MacIennan, R. D., M.A. Edin.  
Assoc. Prof.

Fulton, J. S., Ph.D. Corn. Lectr.

Currie, C., M.A. Sessional Lectr.

*Physics*

Shaw, A. N., M.A. Camb., D.Sc.,  
F.R.S.C. Prof.

King, L. V., M.A. Camb., D.Sc.,  
F.R.S. Macdonald Prof.

Keys, D. A., M.A. Tor., Ph.D.  
Camb. and Harv., F.R.S.C.

Foster, J. S., D.Sc. Acad., Ph.D.  
Yale, F.R.S.C.

Reilley, H. E., M.Sc. Assoc. Prof.

Watson, W. H., M.A., Ph.D. Camb.  
and Edin. Asst. Prof.

Douglas, A. V., M.B.E., M.Sc.,  
Ph.D., F.R.A.S.

(Astro-Phys.) Lectr.

Watson, H. G. I., B.A. Tor., M.Sc.,  
Ph.D. Lectr.

Terroux, F. R., M.Sc., Ph.D.  
Camb. Lectr.

5 Demrs., 1 Instr.

*Physiology*

Tait, J., D.Sc., M.D. Edin.,  
F.R.S.E., F.R.S.C.

Babkin, B. P., M.D. St. Pet., D.Sc.  
Lond., F.R.S.C.

Giblin, N., M.C., B.A. Tas., M.B.,  
Ch.B. Ed. Asst. Prof.

Dworkin, S., M.Sc., M.D. Lectr.

1 Demr.

*Psychology*, v. also Med. *infra*

Tait, W. D., B.A. Dal., M.A.,  
Ph.D. Harv. Prof.

Kellogg, C. E., B.A. Bowdoin,  
M.A., Ph.D. Harv. Assoc. Prof.

Morton, N. W., M.A., Ph.D.  
Lectr.

1 Demr.

*Sociology*

[Prof.]

Dawson, C. A., B.A., Ph.D. Chic.

Hughes, E. C., B.A., Ph.D. Chic.

2 Assts. Asst. Prof.

*Spanish*

Sugars, R. M., M.A. Dub. Prof.

*Zoology*

..... Strathcona Prof.

Berrill, N. J., B.Sc. Brist., Ph.D.,  
D.Sc. Lond., F.R.S.C.

Assoc. Prof.

Wynne-Edwards, V. C., M.A. Ox.

Asst. Prof.

Taylor, B. W., M.Sc. Hon. Lectr.

2 Demrs.

*Engineering**Civil Engineering and Applied Mech.*

Brown, E., M.Sc. Manc., M.Eng.  
Liv. Dean and Prof.

Jamieson, R. E., M.Sc.

Wm. Scott Prof.

Dodd, G. J., M.Sc. Assoc. Prof.

Weir, J., B.Sc. (Geol.)

Assoc. Prof.

Wood, F. M., M.A., B.Sc.

Asst. Prof.

Craig, C., B.A., M.Eng. Lectr.

2 Assts.

*Electrical Engineering*

Christie, C. V., M.A., B.Sc. Dal.

Macdonald Prof.

Wallace, G. A., M.Sc. Assoc. Prof.

Burr, E. G., B.Sc. Asst. Prof.

Schippel, W. H., B.Sc. Lectr.

Howes, F. S., Ph.D. Lond. Lectr.

*Geodesy*, v. *Surveying and Geodesy**Highway and Municipal E.*

French, R. de L., B.Sc., C.E.

Prof.

*Law, Engineering*

Culliton, J., B.A. Sask., M.A.

Asst. Prof.

Patton, D. R., B.Com., C.A.

Lectr.

*Mechanical Engineering*

McKergow, C. M., M.Sc.

Workman Prof.

Roberts, A. R., M.Sc.

Prof.

Coote, J. A., B.Sc.

Asst. Prof.

Patten, R. H., B.Sc.

Asst. Prof.

McCurdy, L. R., M.Sc.

Asst. Prof.

1 Asst.

*Metallurgical Engineering*

Sproule, G. St. G., M.Sc.

Assoc. Prof.

MacEwan, J. U., B.Sc. Qu., M.S.

Montana

Assoc. Prof.

1 Research Fellow.

*Mining Engineering*

McBride, W. G., B.Sc., M.Inst.M.M.

Macdonald Prof.

Bell, J. W., M.Sc.

Prof.

Brown, O. N., B.Sc.

Assoc. Prof.

1 Research Fellow.

*Surveying and Geodesy*

Kelly, A. J., B.Sc. (Surv.)

Assoc. Prof.

Weir, J., B.Sc. (Geod.)

Assoc. Prof.

**Law**

*Civil Law*

Chipman, W. F., B.A., B.C.L., K.C.

Prof.

LeMesurier, C. S., B.A., B.C.L.,

K.C.

Dean & Prof.

Scott, F. R., B.A. Bishop's and

Ox., B.Litt. Ox., B.C.L.

Prof.

Surveyer, Hon. Justice E. F.,

B.A., LL.M. Laval, B.C.L.,

F.R.S.C.

Prof.

*Civil Procedure*

Tyndale, O. S., M.A., B.C.L., K.C.

Prof.

Abbott, D. C., B.C.L.

Lectr.

*Commercial Law*

Bruneau, A. S., B.A., B.C.L., K.C.

Prof.

**Lecturers :**

Claxton, B., B.C.L.

Mathewson, J. A., B.A., B.C.L.,

K.C.

Nicholson, W. C., B.A., B.C.L.

Rodier, L., B.A., LL.B.

Smith, A. I., B.A., B.C.L.

Symons, F. S.

Wilson, K. A., B.C.L., K.C.

*Criminal Law*

Fauteux, G., B.A., K.C.

Lectr.

*Law of Insurance*

Claxton, B., B.C.L.

Lectr.

*Municipal Law*

Heeney, A. D. P., B.A. Ox., M.A.

Manit., B.C.L.

Lectr.

*Roman Law*

Corbett, P. E., M.A. Ox. and McG.

Gale Prof.

Humphrey, J. T. P., B.A., B.C.L.

Lectr.

**Medicine**

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Anæsthesia*

Howell, W. B., M.D., C.M., L.R.C.P.

and S. Ed. (Surg. A.) Lectr.

Stewart, C. C., M.D., C.M.

(Surg. A.) Lectr.

Bourne, W., M.Sc., M.D., C.M.,

F.R.C.P.C.

Lectr.

2 Demrs.

*Bacteriology and Immunity*

Murray, E. G. D., O.B.E., M.A.

Camb., L.M.S.S.A. Prof.

Smith, F., M.A., M.B., B.Ch. Camb.,

M.R.C.S., L.R.C.P.

Asst. Prof.

Roy, T. E., B.A. Acadia, M.D.,

C.M.

Lectr.

3 Demrs.

*Dermatology*

Burnett, P., D.S.O., M.D., C.M.,  
M.R.C.S., L.R.C.P. Clin. Prof.  
Burgess, J. F., M.B., F.R.C.P.C.  
Clin. Prof.

2 Demrs. and Asst. Demr.

*Gynæcology, v. Obstetrics and Gynæcology**Medicine, v. also Bact., Ped.*

Meakins, J. C., M.D., C.M., LL.D.  
Edin., F.R.C.P. Can., Edin.  
and Lond., F.R.C.S. Ed.,  
F.R.S.C. Prof.  
Gordon, A. H., M.D., C.M.,  
F.R.C.P.C. Prof.

*Asst. Profs. :*

Mason, E. H., Ph.B., M.D.,  
F.R.C.P.C.  
Rabinowitch, I. M., D.Sc., M.D.,  
C.M., F.R.C.P.C.  
Kaufmann, J., M.D., C.M.,  
F.R.C.P.C.  
Lewis, D. S., M.Sc., M.D.,  
F.R.C.P.C.  
Moffatt, C. F., B.A., M.D., C.M.  
Birchard, C. C., M.D. Tor.,  
M.R.C.P. Lond., F.R.C.P.C.  
Montgomery, Lorne C., M.D.,  
C.M., F.R.C.P.C.  
Ross, J. B., M.D., C.M., F.R.C.P.C.

*Lecturers :*

Browne, J. G., B.A., M.D., C.M.  
Byers, J. R., M.D., C.M., L.R.C.P.  
Ed., F.R.C.P.C. (Tuberc.).  
Campbell, D. G., B.A., M.D., C.M.,  
F.R.C.P.C.  
Bourne, C. R., M.D., C.M.  
Browne, J. S. L., B.Sc. (Med.),  
Ph.D., M.D., C.M.  
Hardisty, R. H. M., D.S.O., M.C.,  
B.A., M.D., C.M.  
Henderson, A. T., M.D., C.M.  
McKechnie, D. W., D.S.O., M.D.,  
C.M.  
Scriven, W. de M., B.A., M.D.,  
C.M., F.R.C.P.C.  
Brow, G. R., M.D., F.R.C.P.C.  
McIntosh, J. F., B.A., M.D., C.M.

Gordon, Keith, B.A., M.D., C.M.,  
F.R.C.P.C.  
Mills, E. S., M.Sc., M.D., C.M.,  
F.R.C.P.C.

20 Demrs. and Asst. Demrs.

*Neurology and Neuro-Surgery*

Penfield, W. G., Litt.B. Princ.,  
M.A., D.Sc. Ox., M.D. J.  
Hopk. Prof.  
Russel, C. K., B.A., M.D.,  
F.R.C.P.C. Assoc. Prof.  
Cone, W. V., B.Sc., M.D.

Assoc. Prof.  
Mackay, F. H., B.A., M.D., C.M.  
Clin. Prof.

Petersen, J. N., B.Sc., M.D., C.M.  
Lectr.

Viner, N., B.A., M.D., C.M. Lectr.

Elvidge, A. R., M.Sc., Ph.D., M.D.,  
C.M., F.R.C.S.C. Lectr.

McEachern, D., M.D. Lectr.

Young, A. W., M.D., C.M.,  
F.R.C.P.C. Lectr.

Childe, A. E., M.D. Manit. Lectr.  
12 Demrs. and Research Fellows.

*Obstetrics and Gynæcology*

Fraser, J. R., M.D., F.R.C.S.C.,  
F.A.C.S., F.C.O.G. Prof.  
Bauld, W. A. G., D.S.O., B.A.  
Dalh., M.D., C.M., F.R.C.S.C.,  
F.A.C.S., M.C.O.G.

Asst. Prof.  
Campbell, A. D., M.D., C.M.,  
F.R.C.S.C., F.A.C.S.,  
M.C.O.G. Asst. Prof.

*Clinical Professors :*

Goodall, J. R., O.B.E., B.A., D.Sc.,  
M.D., C.M.

Duncan, J. W., M.D., C.M.,  
F.R.C.S.C., F.A.C.S., F.C.O.G.

Burgess, H. C., M.D., C.M.,  
F.R.C.S.C., F.A.C.S., F.C.O.G.

Melhado, G. C., M.D., C.M.,  
M.C.O.G., F.A.C.S. Lectr.

Patrick, I., B.A., M.D., C.M.,  
M.C.O.G. Lectr.

7 Demrs. and Asst. Demrs.

*Ophthalmology*

[Prof.  
Tooke, F. T., B.A., M.D., C.M.  
McKee, S. H., C.M.G., B.A. N.  
Brun., M.D., C.M., F.R.C.S.C.  
Clin. Prof.  
McAuley, A. G., M.D., C.M.  
Lectr.  
MacMillan, J. A., M.D., C.M.  
Lectr.  
3 Demrs. and Asst. Demrs.

*Oto-Laryngology*

..... Prof.  
Ballou, D. H., B.A., M.D., C.M.,  
F.R.C.S.C. Asst. Prof.  
Hodge, G. E., M.D., C.M., F.A.C.S.,  
F.R.C.S.C. Asst. Prof.  
McNally, W. J., B.A., M.D.,  
C.M., Dal. D.Sc., D.L.O.  
Eng., F.R.C.S.C. Lectr.  
Wright, R. P., M.D., C.M.,  
F.R.C.S.C. Lectr.  
3 Demrs. and Asst. Demrs.

*Pathological Chemistry*

Browne, J. S. L. (also Med.)  
Lectr.  
Mason, E. H. (also Med.) Lectr.  
Rabinowitch, I. M. (also Med.)  
Lectr.

*Pathology*

Oertel, H., M.D. Strathcona Prof.  
Rhea, L. J., B.Sc. Texas, M.D.  
Johns H. Assoc. Prof.  
Waugh, T. R., B.A. Yale, M.D.,  
C.M. Asst. Prof.

Lecturers :

Chase, W. H., B.A. Acad., M.D.  
Dalh.  
Pritchard, J. E., M.D. Manit.  
Cone, W. V., B.Sc., M.D. (Neuro-P.).  
4 Asst. Demrs.

*Pediatrics*

[Clin. Prof.  
Cushing, H. B., B.A., M.D.  
Asst. Profs. :  
Ross, S. G., D.S.O., B.A., M.D.,  
C.M., M.R.C.P.

Struthers, R. R., B.A., M.D.,  
F.R.C.P.C.

Lecturers :

Lindsay, L. M., M.D., C.M.  
Goldbloom, A., B.A., M.D., C.M.,  
F.R.C.P.C.  
Wright, H. P., B.A., M.D., C.M.,  
F.R.C.P.C., F.A.C.P.  
5 Demrs. and Asst. Demrs.

*Pharmacology and Therapeutics*

Stehle, R. L., M.A. Ohio, Ph.D.  
Yale (Pharmacol.) Prof.  
Lewis, D. S., M.Sc., M.D.,  
F.R.C.P.C. (Therap.)  
Assoc. Prof.  
Melville, K. I., M.Sc., M.D., C.M.  
(Pharmacol.) Asst. Prof.  
Campbell, D. G., B.A., M.D., C.M.,  
F.R.C.P.C. (Therap.) Lectr.  
Scriver, W. de M., B.A., M.D.,  
C.M., F.R.C.P.C. (Therap.)  
Lectr.  
Harvey, F. W., B.A., M.D., C.M.  
(Physio-Therapy) Lectr.  
Brown, N., M.D., C.M. (Physio-  
Therapy) Lectr.  
1 Demr.

*Psychiatry*

Porteous, C. A., M.D. Qu.  
Clin. Prof.  
3 Demrs.

*Public Health and Prev. Med.*

Fleming, A. G., M.C., M.D., D.P.H.  
Tor., F.R.C.P.C.  
Dean of Fac., Prof. and  
Director.  
Macdonald, R. St. J., J.P., B.A.,  
M.D., C.M., D.P.H. (Hyg.)  
Asst. Prof.  
Mitchell, W. T. B., M.B. Tor.  
(Mental Hyg.) Asst. Prof.  
Pedley, F. G., Dr.P.H. Harv.,  
B.A., M.D., C.M. (Indust.  
Hyg.) Asst. Prof.  
2 Demrs.



*Radiology*

- Brooks, E. C., M.B., Ch.B.,  
L.R.C.P. and S. Ed. (Med. R.).  
Lectr.  
Ritchie, W. L., M.B. Tor. (Surg.  
R.) Lectr.

*Surgery and Clinical Surgery*

- Bazin, A. T., D.S.O., M.D., C.M.,  
F.R.C.S.C. Prof.  
Eberts, E. M., M.D., L.R.C.P.,  
M.R.C.S. Prof.  
Barlow, W. L., B.A., M.D.,  
F.R.C.S.C. Assoc. Prof.  
McKenty, F. E., M.D., F.R.C.S.  
Eng. Assoc. Prof.  
Henry, C. K. P., M.D., C.M.,  
F.R.C.S.C. Asst. Prof.  
Gurd, F. B., B.A., M.D., C.M.  
Asst. Prof.  
Patch, F. S., B.A., M.D., C.M.,  
F.R.C.S.C. (Urology)  
Clin. Prof.  
MacKenzie, D. W., B.A., M.D.,  
F.R.C.S.C. (Urology)  
Clin. Prof.  
Turner, W. G., M.C., B.A., M.D.,  
M.R.C.S. (Orthop. Surg.)  
Clin. Prof.  
Nutter, J. A., B.A., M.D., C.M.,  
F.R.C.S.C., F.A.C.S. (Orthop.  
Surg.) Clin. Prof.

*Lecturers :*

- Tees, F. J., M.C., B.A., M.D., C.M.  
Powell, R. E., B.A., M.D., F.R.C.S.  
Edin. and Can., F.A.C.S.  
(Urology).  
Patterson, W. J., B.A., M.D., C.M.  
(Orthop. Surg.).  
Williamson, N. T., M.D., C.M.,  
F.R.C.S.C. (Orthop. Surg.)  
Armour, J. G., M.Sc., M.D., C.M.  
Elder, H. M., M.D., C.M.  
Fitzgerald, R. R., B.Sc., M.D.,  
C.M., F.R.C.S. Eng.  
Fleet, G. A., M.Sc., M.D., C.M.  
Johnson, G., M.A., M.D., C.M.,  
F.R.C.S. Edin. and Can.  
Miller, G. G., M.Sc., M.D., C.M.,  
F.R.C.S.C.

- Ross, D. E., M.Sc., M.D., C.M.  
Wilkie, A. L., B.A. St. F. X.,  
M.D., C.M.  
11 Demrs. and Asst. Demrs.  
*Therapeutics*, v. Pharmacol. and  
Therap.

*Dentistry**Crown and Bridge Work*

- Bushell, W. C., D.D.S., L.D.S.  
Lectr.  
1 Demr.

*D. Anæsthesia*

- Stewart, C. C., M.D. Lectr.

*D. Anatomy*

- ..... Lectr.

*D. Ethics*

- Blacklock, J. N., D.D.S.  
Spl. Lectr.

*D. History*

- Laurin, E. M., D.D.S. Spl. Lectr.

*D. Jurisprudence*

- Scott, Prof. F. R., B.A. Ox. &  
Bishop's, B.Litt. Ox., B.C.L.  
Prof.

*D. Pathol. and Therapeutics*

- ..... Prof.

*D. Office Management*

- Common, J. S., D.D.S.  
Spl. Lectr.

*D. Radiology*

- Ritchie, W. L., M.B. Tor. Lectr.

*D. Surgery*

- Walsh, A. L., D.D.S. Prof.

*Diet and Nutrition*

- Rabinowitch, I. M. (also Med. and  
Path. Chem.) Asst. Prof.

*Operative D.*

- Baxter, F. H. A., D.D.S., L.D.S.  
Prof.  
Mowry, D. P., D.D.S., L.D.S.  
Assoc. Prof.

Leahy, W. G., B.Sc., D.D.S. Lectr.  
6 Demrs.

*Oral Surgery*

Gerrie, J. W., B.A., D.D.S. Alta.  
M.D. C.M. Lectr.  
2 Demrs.

*Orthodontia*

McClelland, A. W., D.D.S., L.D.S.  
Prof.  
Franklin, G., D.D.S., L.D.S. Lectr.  
1 Demr., 1 Asst. Demr.

*Prosthetic D.*

Dohan, J. S., D.D.S., L.D.S. Prof.  
Lowry, I. K., B.A., D.D.S. Lectr.  
Bourke, E. T., D.D.S. Spl. Lectr.

Flanagan, J. C., D.D.S. Spl. Lectr.  
1 Demr., 14 Clinical Demrs.

*Physical Education, Department of*

Lamb, A. S., B.P.E. Springfield,  
M.D., C.M. Director.  
Herriott, Jesse S., B.Sc., M.A. Col.  
Director for Women.  
Harvey, F. W., B.A., M.D., C.M.  
Univ. Med. Off.  
Mellor, Dorothea, B.Sc., M.D.,  
C.M.  
Univ. Med. Off. (Women).  
Forbes, D. S., M.C., B.Sc., B.Arch.  
Athletics Manager.  
4 Assts.

MACDONALD COLLEGE

Vice-Principal and Dean of the Fac. of Agric.—W. H. Brittain,  
M.S.(Agr.), Ph.D. Corn., F.R.S.C.

*Agriculture*

*Agricultural Chemistry* [Prof.  
McFarlane, W. D., Ph.D. Tor.  
De Long, W. A., B.S.A. Tor., Ph.D.  
Minn., M.Sc. Asst. Prof.  
Wrenshall, C. L., Ph.D. Lectr.  
1 Demr.

*Agricultural Economics*

Lattimer, J. E., B.S.A., M.Sc.,  
Ph.D. Wisc. Prof.

*Agricultural Engineering*

Heimpel, L. G., M.S. Corn.  
Assoc. Prof.  
Kalbfleisch, W., B.E. Sask. Lectr.

*Agronomy*

Summerby, R., M.S.A. Corn. Prof.  
Lods, E. A., M.S.A. Asst. Prof.  
Raymond, L. C., M.S. Wisc.  
Asst. Prof.  
Bird, J. N., M.A. Tor., M.S.A.  
Lectr.

*Animal Husbandry*

Ness, A. R., B.S.A. Prof.

Crampton, E. W., M.S. Iowa  
(Animal Nutrition)  
Assoc. Prof.  
Hamilton, L. H., M.S. Wisc.  
Asst. Prof.

*Animal Pathology*

Conklin, R. L., D.V.M. Corn.,  
M.Sc. Prof.  
Bain, A. F., B.V.Sc. Tor.  
Asst. Veterinarian.

*Bacteriology*

[Assoc. Prof.  
Gray, P. H. H., M.A. Ox.  
Brynoe, E. T., Ph.D. Lectr.

*English*

Brunt, H. D., B.A. Dal., Ph.D.  
Jena Assoc. Prof.  
Hodgins, S. R. N., B.S.A., M.A.  
(and Journalism) Asst. Prof.  
1 Demr.

*Entomology*

Brittain, W. H., M.S. (Agr.), Ph.D.  
Corn. Dean and Prof.

Du Porte, E. M., B.S.A., Ph.D.  
Asst. Prof.  
Whitehead, W. E., M.Sc. Lectr.  
Cameron, J. W. McB., M.Sc. Lectr.

*Horticulture*

Bunting, T. G., B.S.A. Tor. Prof.  
Murray, H. R., B.S.A. Tor., M.Sc.  
Corn. Asst. Prof.  
i Instructor.

*Physics*

Rowles, W., M.Sc., Ph.D.  
Assoc. Prof.  
Froman, D. K., M.Sc. Alb., Ph.D.  
Chic. Asst. Prof.

*Plant Pathology* [Assoc. Prof.

Coulson, J. G., M.A. Qu.  
Brodie, H. J., Ph.D. Mich. Lectr.  
Crowell, Ivan H., B.Sc. N. Brun.,  
M.A., Ph.D. Edin. Lectr.  
i Asst.

*Poultry*

Maw, W. A., M.S.A. Asst. Prof.  
Maw, A. J. G., M.S. Wisc. Lectr

**Institute of Parasitology**

Cameron, T. W. M., T.D., M.A.,  
D.Sc. Edin., Ph.D. Lond.,  
M.R.C.V.S.  
Director and Prof.

Conklin, R. L., D.V.M. Corn.,  
M.Sc. (Pathol.) Prof.  
Parnell, I. W., B.A. Camb., Ph.D.  
Edin. Lectr.  
Swales, W. E., B.V.Sc. Tor., V.S.  
Ont., Ph.D. Lectr.

**Teachers, School for**

Laird, S., M.A., B.Phil., O.I.P.  
Dean and Prof.  
Brunt, H. D., B.A. Dalh., Ph.D.  
Jena (English) Assoc. Prof.

**Lecturers :**

Lockhart, A. R. B., M.A. Col.  
Musgrove, R. B., F.R.C.O. (Music).  
Irvine, E. C., M.A., B.Pæd. Tor.  
(Maths.).  
Brownrigg, Novah E., B.A. Qu.  
(French).  
Ramsay, Violet B.  
Seiveright, Dorothy J., M.A.  
Bishop's (Hist and Geog.).  
Elderkin, Evelyn (Art) (on leave).  
Melgaard, Agnes L., B.S. (Art).

**Household Science, School of**

Philp, Bessie M., Hd. of School.  
8 Lectrs., etc.

**AFFILIATED INSTITUTIONS**

ACADIA, ALBERTA, MT. ALLISON, AND ST. FRANCIS XAVIER UNIVS.  
Students who have completed the 2-yr. course in Engin. of these Univs. are  
admitted directly to the 3rd yr. in McGill Engin. courses, except in Chemical  
Engin., for which special arrangements are at present necessary.

GRADUATES OF THE ROYAL MILITARY COLLEGE, Kingston, are admitted to  
the 3rd yr. in McGill Engin. courses. Graduates and students of the Mechanical  
Science course of CAMBRIDGE are admitted to advanced standing in the  
Faculty of Eng. Particulars obtainable from the Dean of the Faculty.

TRURO AGRICULTURAL COLLEGE. Students who have completed the  
2-yr. course of study are admitted to the 3rd yr. in the Faculty of Agriculture  
at Macdonald College.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I., and MEMORIAL COLLEGE  
St. John's, Nfld. Students who have completed the 2-yr course of study are  
admitted to the 3rd yr. in the Faculty of Agriculture or the School of Household  
Science at Macdonald College.

## AFFILIATED THEOLOGICAL COLLEGES

DIOCESAN COLLEGE OF MONTREAL. Principal, Rev. G. Abbott-Smith, M.A., D.D., D.C.L.

PRESBYTERIAN COLLEGE, MONTREAL. Principal, F. Scott Mackenzie, M.A., Th.D., D.D.

UNITED THEOLOGICAL COLLEGE, MONTREAL. Principal, J. Smyth, B.A., D.D., LL.D.

Students enter after graduation or pursue courses concurrently in Arts at the Univ., in Theol. at the Coll.—6 yrs. in all.

## GENERAL INFORMATION

Established in 1821 by Royal Charter. For early history and constitution, see *Yearbook* for 1929. Income from Investments, about \$675,000.

LIBRARIES, 377,700 vols. (Medical, 49,700 ; large Ophth. Dept.) and 40,000 pamphlets ; Peter Redpath collection of 10,000 political and religious tracts dating from A.D. 1600 ; Wood Library of Ornithology ; Blackader Library of Archit. ; Blacker Library of Zool. ; Travelling Library ; Osler Library (9000 vols.). LABORATORIES : Chemistry, Physics, Zool., Bot., Physiol., Biochem., Pharmacol., Neurol., Engin., Psych. Research, Pulp and Paper Research, Agric. Research. FARM, Live Stock and Grain, 876 acres. ASTRON. OBSERVATORY. THE INSTITUTE OF PARASITOLOGY. MEDICAL MUSEUM (Strathcona), collection of disturbances of heart and vascular system and aneurisms. REDPATH MUSEUM (botanical, geological, and zoological collections). HOSPLS. available for clinics, 2000 beds in Affiliated hospitals.

FACULTIES. Arts and Science, Law, Medicine, Engin. (Archit., and 6 branches of Engin.—Chem., Civil, Elec., Mech., Metall., Mining), Agric., Dentistry, Music, Graduate Studies. The Univ. has also Schools of Commerce, Physical Educn., Graduate Nurses, Library School, and (in Macdonald Coll.) Household Science and a School for Teachers.

ADMISSION. School Cert. and British Matricn. Examns. accepted. McGill Matricn. Examn. is held in London in June : particulars obtainable from W. A. Bulkeley-Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C.4.

DEGREE COURSES. B.L.S. (Library Science), 1 yr. post-graduate ; Mus.Bac., 3 yrs. ; B.A., B.Com., B.Sc., B.Sc. (Agr.), B.H.S. (Household Sci.), 4 yrs. ; B.Arch., B.Eng., B.C.L., 5 yrs. ; D.D.S., 6 yrs. ; M.D., C.M., 5 yrs. (new regns.).

HIGHER DEGREES. M.A., M.Com., M.C.L., M.Sc., M.Eng.—1 yr. resident graduate study, thesis and examn. ; Ph.D.—3 yrs. graduate study ; D.Litt., D.Sc.—on recommendation of Board of Grad. Studies ; D.C.L.—by valuable contribution to legal science ; Mus.Doc.—by a composition and examn. not less than 7 yrs. after taking the Mus.Bac.

DIPLOMAS. L.Mus., D.P.H., Teachers', Graduate Nurses', Physical Edn.

ATTENDANCE at lectures at the Univ. or Macdonald or Affiliated Coll. is indispensable.

DIPLOMA COURSE IN AGRICULTURE. The Diploma Course in the Faculty of Agriculture consists of two sessions of five months each (November to March inclusive). This course is intended to provide a general education for boys who intend to farm, and equip them with such a technical knowledge of agri-

culture as will enable them to deal with the problems arising in connexion with their work. The work is so arranged that students may choose subjects that definitely relate to the type of farming in which they are most interested. A third session, leading to an Advanced Diploma is also available for students of high standing, emphasis being placed upon the problems of rural leadership.

Closely connected with this extension is the "old country boy" project, under which boys from the British Islands are encouraged to take up this diploma course at Macdonald College so as to fit them for the work of farming, and every effort is made to give them, not only the theoretical education that is needed, but also the practical. Since this plan was put into effect in 1926 about 300 boys, from English public and secondary schools, have been placed on selected farms.

**FEES.** Yearly tuition, Arts, \$215, Sci., \$235; Engin., \$260; Med., \$360 (non-British, \$460); Dentistry, \$310 (non-British, \$350); Law, \$235; Commerce, \$235; Phys. Edn., \$210; Grad. Nurses, \$160; Library Sci., \$160; Agric., residents of Canada, \$50; others, \$100; Household Sci., residents of Canada, \$100; others, \$125. M.A., M.Sc., M Eng., or M.Com., course, \$140 (with lab work, \$160), Ph.D. course, each year, \$140 (\$160 with lab. work); D.Sc., D.Litt., D C.L., or Mus.Doc., \$100.

**SCHOLARSHIPS FOR GRADUATES.** In Econ. and Polit. Sc., Guy Drummond Memorial Scholarship, Income from \$45,190 endowment; Allen Oliver, \$400; Alexander Mackenzie, \$600; Chem., Sterry Hunt, \$600; Geol., Le Roy, \$460; Mining Research and Teaching Fellowships, 1 of \$600, 1 of \$550; Med. Research, especially Obstetrics and Gynæc., A. A. Browne Endowment, \$10,000 endowment open to grads. of any recognized Med. school; Path. Research, J. Douglas Endowment, \$25,000; Experimental Surg. Research, John McCrae Fellowship, \$800; Research in Obst. and Gynæcol., Clara Law Fellowship, \$1200; J. Francis William Fellowship in Med., \$500; "Delta Upsilon," \$700; The Moyse *Travelling Scholarships*, 2 of \$1250 each; Law, Macdonald Endowment, \$24,335; Hugh McLennan Travelling Scholarship in Archt., \$1000.

**RESIDENCE.** Women: Roy. Vict. Coll., accommodation for 110 students; men: Douglas Hall, accommodation for 125 students; Strathcona Hall (Y.M.C.A.), accommodation for 60. Physical Training is compulsory for women students and students are subjected to physical examn. on entering the Univ. Board and residence in Roy. Vict. Coll., \$450 per session; board and residence in Douglas Hall, for students in Arts and Sci., Engin. and Law, \$360 per session, for students in 3rd, 4th and 5th years Medicine and 3rd and 4th years Dentistry, \$380, for students in 1st and 2nd years Medicine and Dentistry, \$420; approved lodgings, \$35 per month and upwards; rooms only, \$12 per month and upwards; board, \$25 and upwards.

McGill Union dining-room, accommodating 120 students at a time, provides inexpensive meals.

**EXTENSION WORK.** Extension courses in a variety of subjects are given in the afternoon and evenings for residents of Montreal and vicinity. Some prepare students for special examns., such as are required by the various Accountancy Associations (leading to diplomas of L.A., C.A., C.P.A., etc.), and the Inter. and Final examns. of the Chartered Inst. of Secretaries. Rural extension work is carried on under the Fac. of Agriculture.

**PUBLICATIONS.** *Calendar* (July); *General Announcement* (for intending students) (May); *Coll. Announcements* (May to July); *Annual Report* (Dec.); *McGill News*, quarterly, by Graduates' Soc.; *McGill Daily*, by students;

*Lectures and Addresses*; Catalogue of Scientific Periodicals in Canadian Libraries, 1924, \$5; *McGill and its Story, 1821-1921*, by Cyrus Macmillan (London, John Lane; New York, John Lane & Co.; Toronto, Oxford Univ. Press, \$3); *A Historical Sketch of the Medical Faculty and of the Origin of McGill University*, by Dr. Maude Abbott.

## THE YEAR 1936-37

**BENEFACTIONS.** Anon., \$5000 and \$1000 for cancer research; Canadian Pulp and Paper Assn., \$2000; Anon., \$600 for scholarship; C. M. Morrisen, \$1050 for bursaries; Dr. and Mrs. Hibbert, \$600 for scholarship; Siscoe Gold Mines, \$4800 for scholarships; W. H. Dow, \$1000, and Rainier Pulp and Paper Co., \$2400 for research work in Indust. and Cellulose Chem.; Mrs. A. A. Hodgson, \$1000 to Neurophysiol. Research Fund; Dr. and Mrs. Howard J. Means, \$2000 to Dept. of Neurosurg. for any phase of Prof. Penfield's work; Mrs. John R. Fraser, \$1200 payment for 1937, Clara Law Fellowship for Obstet. and Gynæcol.; Lady Roddick, \$3000 to increase endowment of Peter Whiteford Redpath and Jocelyn Clifford Redpath Memorial Fund; Miss F. Winnifred de Pencier, \$5000 to establish "The H. P. de Pencier Memorial Library Fund," the income to be used either to purchase books or in certain circumstances to provide a scholarship or scholarships in the Dept. of Mining and Metallurgy; Rockefeller Foundation, \$2500, "To provide the salary of an asst. and to purchase materials for Prof. R. L. Stehle, of the Dept. of Pharmacol. and Therap."

**NEW BUILDING.** Douglas Hall, the first Univ. residence for men, completed in Sept. 1937 and officially opened by H.E. the Governor-General of Canada on 6th October 1937. It is named after Dr. James Douglas, a former Governor of the Univ., who gave and bequeathed the money for its erection.

**VISITING LECTURERS.** Dr. James White, Boston, "The Physiological Effects of Sympathectomy." Dr. Kurt Goldstein, New York City, "Symptoms in Frontal Lobe Lesions and the Significance of the Frontal Lobe for Human Behaviour." Prof. Max Peet, Ann Arbor, "The Surgical Treatment of Hypertension." Dr. Soma Weiss, Boston, "Syncope and Allied Syndromes." Dr. Stephen Polyak, Chicago, "Vision and the Cerebral Cortex." Prof. Pierre Masson, Montreal, "Arteriovenous Anastomoses." Prof. K. S. Lashley, Harvard Univ., "Factors Limiting Improvement after Central Nervous Injuries." Dr. Marion Hines, Baltimore, "The 'Motor' Cortex." Dr. John Murray, Principal of University Coll., Exeter, "Founder's Day Address." Dr. Ballard, Dartmouth Coll., on Experimental Embryology to the Biological Colloquium. Dr. Arnold Gesell, Yale Child Clinic, sound film—"Life Begins, a Study of Infant Behaviour." Dr. Friedrich Finkelstein, Berlin, "Infant Feeding." Dr. Henry Dawson, Medical Centre, Columbia Univ., "Rheumatic Fever and Rheumatoid Arthritis." Dr. C. Macfie Campbell, Boston Psychiatric Hospital, conducted a clinic. Dr. Edward Roberts, New York City, "The Management of Pneumonia"—a Moving Picture Demonstration. Dr. C. C. Laurence, National Research Council Laboratories, Ottawa, "Physical Problems in X-Ray and Radium Dosage Measurement." Prof. G. H. Henderson, Dalhousie Univ., "The Age of the Earth." Dr. Donald H. Menzel, Harvard Observatory, "Russia in and out of Eclipse." Dr. G. C. Southworth, Bell Telephone Laboratories, New York City, "Hyper-Frequency Wave Problems." Dr. J. W. A. Hickson, Montreal, "Some Alleged Limitations of Science." Dr. Peter M. Millman, David Dunlap Observatory, Toronto, "Meteors—the Debris of Space." Mr. T. Vijayaraghavan, "An Introduction

to the Theory of Numbers." Dr. Wm. L. Finley, "Woods, Water and Wildlife." M. René Demogue, Prof. of Civil Law, Univ. of Paris, "L'Enrichissement sans Cause." Prof. A. B. MacDonald, Director of Extension, St. Francis Xavier Univ., "The Extension Work of the University in Poverty-Stricken Areas of Eastern Nova Scotia." Hon. Gordon Scott, "Education for Life." Dr. G. H. S. Barton, Deputy Minister of Agriculture, Ottawa, "The Functions and Aims of the Imperial Agricultural Bureaux." Mr. R. P. Charbonneau, President, Société des Agronomes Canadiens, "Organization of Professional Agricultural Workers in Quebec."

RETIREMENTS AND RESIGNATIONS. Professors: E. W. Archibald (Med.); W. G. M. Byers (Med.); Fred G. Henry (Med.); T. A. Starkey (Med.); Sir Andrew Macphail (Med.); F. M. G. Johnson (Dean, Fac. of Graduate Studies and Research); W. D. Woodhead (Dean, Fac. of Arts and Sci.). Assoc. Profs.: R. R. McKibbin (Chem., Macdonald Coll.); C. F. H. Allen (Chem.); G. W. Latham (English); Asst. Prof.: Mrs. Mary Duncan Carter (Library Administration).

DEATH. Prof. Francis Alexander Carom Scrimger (Med.).

HONORARY DEGREES. Dr. Maude Abbott, B.A., M.D., C.M., Hon. M. D., Asst. Prof. of Med. and Curator of Museum of Hist. of Med., McGill Univ.; Nevil Norton Evans, B.A.Sc., M.A.Sc., Prof. of Chem., McGill Univ.; Dr. William McClure, M.D., Prof. of Med., Cheeloo Univ., Tsinan, China; Philip Dansken Ross, B.A.Sc., Ex-President of Graduates' Society and a Governor of McGill Univ.; Sherman Charles Swift, B.A., Librarian of Canadian Inst. for the Blind and Editor of *Braille Courier*; Albert Richardson Carman, B.A., LL.D., Editor-in-Chief, *Montreal Daily Star*, since 1921; Hon. Newton Wesley Rowell, P.C., LL.D., Chief Justice of Ontario since 1936; Sir Josiah Stamp, G.C.B., G.B.E., Hon. D.Sc., Hon. LL.D., D.Sc., Chairman of London and Midland Scottish Rly., Director, Bank of England, Member of Economic Advisory Council; Mrs. Susan Elizabeth Vaughan, M.A., Warden, Royal Victoria Coll., 1928-1937; Hon. Esioff Leon Patenaude, P.C., B.A., LL.D., Lieut. Governor of Province of Quebec since 1934.

STUDENTS. Full-time: 2816, including 220 graduates. Part-time: 322.

DEGREES. B.A., 166; M.A., 18; B.C.L., 18; B.Sc., 35; M.Sc., 21; B.Sc. (Agr.), 18; B.Arch., 9; B.Eng., 85; M.D., C.M., 103; D.D.S., 15; B.Com., 36; B.L.S., 5; B.H.S., 19; Mus.Bac., 1; Ph.D., 30.

DIPLOMAS. Graduate Nurses, 27; Physical Education, 10; Music (L.Mus.), 3.

# McMASTER UNIVERSITY, HAMILTON, ONT.

Founded 1887

CHANCELLOR AND PRINCIPAL—HOWARD P. WHIDDEN, B.A. Acadia,  
D.D. Denison, LL.D. McM., West., Qu., Tor., D.C.L. Acadia and  
Hillsdale, F.R.S.C.

REGISTRAR—E. J. BENGOUGH, B.A.

BURSAR—G. M. HENRY, M.A.

LIBRARIAN—H. C. GOURLAY, B.A. Qu., M.A.L.S. Mich.

## TEACHING STAFF

### *Biology*

Gaiser, Lulu O., B.A. W. Ont.,  
M.A., Ph.D. Columb. Prof.  
Warren, A. E., B.A. Acadia, Ph.D.  
Harv. Asst. Prof.  
..... Sp. Lectr.

### *Chemistry*

Burke, C. E., Ph.D. Ill., M.A.  
Assoc. Dean (Sci.) Prof.  
Walker, W. O., M.A. Tor. Prof.  
Morton, J. M., M.Sc. Dal., M.A.,  
Ph.D. Princ. (also Physics)  
Sp. Lectr.

### *English*

McLay, W. S. W., B.A. Tor., M.A.  
Harv., D.Litt. Ac., LL.D. Qu.,  
Dean, Fac. of Arts Prof.  
Haddow, G. C., M.A. Ox. and Tor.  
Asst. Prof.  
Wiles, R. McK., B.A. Dal., M.A.,  
Ph.D. Harv. Asst. Prof.

### *Classics*

Stearn, C. H., M.A. Camb., B.D.  
Lond. Prof.  
Salmon, E. T., B.A. Syd., M.A.,  
Ph.D. Camb. Assoc. Prof.

### *Fine Arts*

[Assoc. Prof.  
Hart, S., M.A. Columb.

### *French*

Haden, E. F., B.A. S. Western  
Presby. Univ. Prof.  
Freeman, H. A., B.A. Sask., M.A.  
Tor. Asst. Prof.  
Creighton, Edith M., B.A. Dal.  
Lectr.

### *Geology*

McNairn, W. H., M.A., Ph.D. Tor.  
Prof.

### *German*

Mueller, P. W., B.A. Tor., M.A.  
Prof.  
Tapscott, H. B., M.A.  
Acting Sp. Lectr.

### *History*

New, C. W., B.A. Tor., Ph.D.  
Chic., B.Th., B.D. Prof.  
Macdonald, N., B.A. Qu., M.A.  
Harv., Ph.D. Ed.  
Assoc. Prof.  
Baldwin, J. R., M.A., B.Litt.  
Ox., B.A. Lectr.

### *Mathematics*

[Prof.  
Findlay, W., M.A., Ph.D. Chic.  
Johns, A. E., M.A., Ph.D. Tor.  
Assoc. Prof.

### *Music*

[Spec. Lectr.  
Godfrey, G., Mus.Doc. Tor.



<i>Philosophy, Psychology, and Ethics</i>	<i>Theology</i>
Bensen, R. C., Ph.D. Chic., M.A., B.Th. Prof.	<i>Christian Theology</i> ..... Prof.
Waters, F. W., B.A., B.D. Asst. Prof.	<i>Church History</i> Gilmour, G. P., M.A. Yale, B.A., B.Th. Assoc. Prof.
<i>Physics</i> Dawes, H. F., M.A., Ph.D. Tor., F.R.S.C. Prof.	<i>Hebrew and Old Testament Interpretation</i> Parker, N. H., B.Sc. Mississippi, Th.D. Southern Bapt. Seminary Prof.
McLay, A. B., M.A., Ph.D. Tor. Assoc. Prof.	<i>Missions and Evangelism</i> Orchard, M. L., B.A. New Bruns., M.A., B.D. Colgate Prof.
Morton, J. M. (v. Chem.) Sp. Lectr.	<i>New Test. Interpretation</i> MacNeill, H. L., B.A., Ph.D. Chic., LL.D. Prof.
<i>Political Economy</i> [Prof.]	<i>Practical Theology</i> ..... Prof.
Michell, H., B.A. Ox., M.A. Manit.	<i>Religious Education</i> ..... Spl. Lectr.
Taylor, K. W., M.A. Chic., B.A. Assoc. Dean, Arts, Prof.	<b>Physical Education</b> Burridge, A. A., B.A. Director.
Hurd, W. B., B.A. Ox., M.A. Manit. Prof.	
Haak, L. A., B.A. Cornell Coll., Iowa, M.A. Iowa. (Sociol. and Econ.) Lectr.	
<i>Public Reading and Speaking</i> Kirkpatrick, F. H., Ph.D. Central Coll. Spl. Lectr.	

## AFFILIATED COLLEGE

BRANDON COLLEGE, Brandon, Man., controlled by Baptist Union of W. Canada. Affild. for courses in Arts. President, J. R. C. Evans, Ph.D., Prof. of Geol. 12 other Professors and 9 other Teachers in Arts Dept.

## GENERAL INFORMATION

In 1887 Toronto Baptist College and Woodstock College, Woodstock, were united under the name of McMaster University, and their already existing endowments were increased by \$900,000, received under the will of the Hon. Wm. McMaster. The Board of Governors (16) are elected by the Baptist Convention of Ontario and Quebec. There is no religious test for entrance, but the Profs. and Lectrs. must be members of some evangelical church. Moulton Ladies' Coll., Toronto (founded in 1888), is represented on the Senate.

**LIBRARY**, 40,000 vols. **LABORATORIES**: Phys., Biol., Chem., Mineral.

**DEGREE COURSES.** 4 or 5 yrs., B.A.; 3 yrs. (after completing 2 yrs. of Arts course), B.Th.; 6 yrs., combined B.A. and B.Th. The first 2 yrs. in Arts do not necessarily involve attendance at lectures.

The B.A. degree is recognized by the Univ. of London.

**HIGHER DEGREES.** Open to B.A.—M.A.; to B.Th. who are also B.A. and

have taken 3 yrs. in Hebrew, involving 1 yr. of study after graduating as B.Th.—B.D.

B.Th. being progressively withdrawn ; B.D., three years after B.A., being substituted.

DIPLOMA. English Theol., 3 yrs.' course.

CERTIFICATE. Missionary Training for women.

ADULT EDUCATION. Evening classes in Arts for teachers and others, leading to B.A. in Genl. Course.

FEES. Annually, for tuition, examn.—Arts, \$110, Theol., \$25 ; Registration, \$5 ; Library, \$5. For student organizations, athletics, etc., men, \$17, women, \$13.50.

RESIDENCE. Board and room per session : men in Edwards Hall, \$256 ; women in Wallingford Hall, \$267.

PUBLICATIONS. *Calendar* (June) ; *McMaster Monthly* (students' magazine) ; *McMaster Silhouette* (students' weekly paper) ; *Marmor* (students' annual) ; *McMaster News* (pub. by Alumni Assn.), seven times a year.

## THE YEAR 1936-37

HONORARY DEGREES. *D.D.*—Hugh McDiarmid, Pastor, First Ave. Baptist Ch., Toronto. *LL.D.*—Hon. Norman McLeod Rogers, Minister of Labor, Ottawa ; Arthur E. Morgan, Principal, McGill Univ.

STUDENTS. Full-time : 549. Part-time : 92, including 12 graduates. Extension Students, 463 (Evening Courses, Summer School).

DEGREES. B.D., 7 ; B.Th., 2 ; B.A., 135 ; also 34 at Brandon ; M.A., 6 ; Eng. Theol. diploma, 1.

# UNIVERSITY OF MANITOBA, WINNIPEG

Founded 1877

CHAIRMAN OF THE BOARD OF GOVERNORS—The Hon. A. K. DYSART,  
M.A., LL.D.

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LL.B. Dal., LL.D. Qu., D.C.L. Acadia.

REGISTRAR—W. J. SPENCE, B.A., LL.D.

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CRAWFORD.

LIBRARIAN—ELIZABETH DAFOE, B.A.

DEAN OF WOMEN—URSILLA N. MACDONNELL, M.A., Ph.D.

## TEACHING STAFF

### *Actuarial Science*

Warren, LI. A. H., M.A. Qu., Ph.D.  
Chic., F.R.A.S. Prof.

### *Agriculture, v. infra*

#### *Anatomy, v. also Med.-Surg.*

Thompson, I. M., B.Sc., M.B.,  
Ch.B. Edin.

Hd. of Dept., Prof.

Bowie, D. W., B.Sc.(Med.), M.A.,  
Ph.D. Tor. Asst. Prof.

Sigurdson, L. A., M.A., M.D.

Lectr.

Wheeler, D., M.A., M.D., C.M.,  
M.R.C.S., L.R.C.P. (X-Ray)

Lectr.

7 Demrs.

### *Architecture*

Osborne, M. S., B.Arch. Col. and  
Ohio, M.Sc. (Arch.) Col. (v.  
also Edn.) Prof.

Russell, J. A., B.Arch. Mass. Inst.  
Tech. Asst. Prof.

### *Astronomy, v. Maths.*

#### *Bio-Chemistry*

Cameron, A. T., M.A., D.Sc. Edin.,  
F.I.C., F.R.S.C. Prof.

White, F. D., Ph.D. Edin., F.I.C.  
Asst. Prof.

1 Demr.

### *Botany*

Leach, W., M.Sc., Ph.D. Manc.,  
D.Sc. Birm. Prof.

Lowe, C. W., M.Sc. Birm.

Assoc. Prof.

Brodie, H. J., Ph.D. Mich., M.Sc.  
Asst. Prof.

2 Demrs. and 3 Student Assts.

### *Chemistry*

Armes, H. P., B.Sc. Leeds, Ph.D.  
Stras. Prof.

Campbell, A. N., D.Sc. Aberd.,  
M.Sc., Ph.D. Lond., F.I.C.

Assoc. Prof.

Hiebert, P. G., M.A. Tor., M.Sc.,  
Ph.D. McG. Asst. Prof.

Robinson, A. D., B.A. Sask.,  
M.A., Ph.D. Minn. Asst. Prof.

Saunderson, H. H., Ph.D. McG.,  
B.A., M.Sc. Asst. Prof.

Charlesworth, E. H., M.A. Qu.,  
D.Phil. Ox. Lectr.

20 Student Demrs.

*Classics*

[Prof. Dorsey, J. W., E.E. Lehigh  
Clark, F. W., Ph.D. Chic., B.A. Asst. Prof.  
Hugill, W. M., B.A. Tor., Ph.D. i Demr.  
Chic. (v. also Edn.)

Johnson, Skuli, M.A. Asst. Prof.  
Asst. Prof.  
Johnson, Skuli, M.A. Asst. Prof.  
Hall, N. M., O.B.E., B.Sc. McG.,  
M.E.I.C. Prof.

*Commerce*

MacDonald, J. M., B.A. St. F. X.,  
M.B.A. Harv. Prof.  
Johnson, F., C.A.  
(Accounting) Lectr.

*Education*

Woods, D. S., B.A. Qu., Ph.D.  
Chic., M.A.  
Dean of Fac., Prof.  
Low, H. R., M.A., B.Sc., Ed.B.  
Glas. Asst. Prof.  
Brooker, Miss M., M.A. Glas.  
Lectr.  
Jarman, R. (Phys. Ed.) Lectr.  
Fletcher, R., B.A., LL.D. Lectr.

*Education*

Osborne, Prof. M. S. (v. Archit.)  
(Art Appreciation) Lectr.  
Hugill, W. M. (v. Classics) Lectr.  
Argue, R. F. (v. English) Lectr.  
Saunders, Doris B. (v. English)  
Lectr.  
Lodge, Prof. R. C. (v. Philos.)  
Lectr.  
7 Instrs.

*Engineering, Civil*

[Prof. Macdonald, A. E., M.Sc. McG.  
Herriot, G. H., B.Sc. Qu., D.L.S.,  
M.E.I.C. Prof.  
Moffatt, R. W., B.A.Sc. Tor.  
Assoc. Prof.  
Riddell, W. F., M.Sc. Asst. Prof.  
Scott, W. M., B.A.Sc. McG.,  
M.E.I.C. Special Lectr.  
Hoogstraten, J., B.Sc.(C.E.)  
Lectr.  
i Demr.

*Engineering, Electrical*

Fetherstonhaugh, E.P., M.C., B.Sc.  
McG., M.E.I.C., Dean of Fac.  
Prof.

Dorsey, J. W., E.E. Lehigh

Asst. Prof.

i Demr.

*Engineering, Mechanical*

Hall, N. M., O.B.E., B.Sc. McG.,  
M.E.I.C. Prof.

*English*

Daniells, R., B.A. Br. Col., M.A.,  
Ph.D. Tor. Prof.  
Perry, A. J., M.A. Acad. and Yale  
Prof.  
Allison, W. T., M.A. Tor., Ph.D.  
Yale Prof.  
Asst. Profs. :

Hopper, C. R., M.A.  
Argue, R. F., M.A. (v. also Edn.).  
Wheeler, A. Ll., B.A. Br. Col.,  
M.A. Tor., Ph.D. Wisc.  
Saunders, Doris B., M.A., B.Litt.  
Ox. (v. also Edn.) Lectr.

*French*

[Prof. Osborne, W. F., M.A. Tor., O.A.  
Jones, C. Meredith, M.A. Wales,  
D. de l'U. Paris Asst. Prof.  
Ballu, Céline A., M.A. Wisc. Lectr.  
Richard, M. E. J., B.A. Alta.  
Lectr.

*Geology and Mineralogy*

De Lury, J. S., B.A. Tor., Ph.D.  
Minn., F.R.S.C. Prof.  
Brownell, G. McL., M.Sc. Man.,  
Ph.D. Minn. Asst. Prof.  
Leith, E. I., M.Sc. Lectr.  
6 Student Assts.

*German*

Heinzelmann, J. H., B.A. Ill.,  
Ph.D. Chic. Prof.  
Buzle, A., Ph.D. Munich  
Asst. Prof.

*History*

Fieldhouse, H. N., M.A. Ox. and  
Sheff. Prof.  
Howe, J. E., B.A. Yale, M.A.  
Acad. Asst. Prof.  
Macfarlane, R. O., M.A. Qu., A.M.,  
Ph.D. Harv. Asst. Prof.

*Law, v. infra*—Affiliated Colleges*Mathematics and Astronomy*

- Wilson, N. R., M.A. Tor., Ph.D.  
Chic., F.R.S.C. Prof.  
Tier, W., M.A. Tor., LL.D., Dean  
of Fac. of Arts Prof.  
Milne, T. H., M.A. Tor. Asst. Prof.  
Lawson, J. W., M.A. Asst. Prof.  
Campbell, W. C., B.A. Asst.

*Medicine, v. infra**Music*

- Clare, Eva Director.

*Pharmacy*

- Bletcher, H. E., B.Sc., F.C.I.C.  
Prof.  
McDougall, D., M.Sc., F.C.I.C.  
Asst. Prof.  
Cochrane, G. R., B.Sc. Asst.

*Philosophy and Psychol.*

- Wright, H. W., B.A., Ph.D. Corn.  
(Psychol. and Social Ethics.)  
Prof.  
Lodge, R. C., M.A. Ox. (Logic and  
Hist. of Philos.) (v. also Edn.)  
(on leave) Prof.  
Long, M., M.A. Tor. (Philos.)  
Interim. Lectr.

*Physics*

- Allen, Frank, M.A. N. Bruns. and  
Corn., Ph.D. Corn., LL.D.,  
F.R.S.C. Prof.  
McClung, R. K., B.A. Camb., M.A.,  
D.Sc. McG., F.R.S.C.  
Assoc. Prof.  
Young, J. F. T., M.A., Ph.D. Tor.  
Assoc. Prof.  
Anderson, W. A., M.A. Chic.,  
M.Sc. Asst. Prof.  
Macdonald, P. A., M.Sc., Ph.D.  
Asst. Prof.  
Batho, H. F., B.A. McM., M.Sc.,  
Ph.D. Chic. Lectr.  
8 Demrs.

*Physiology, v. Medicine**Political Economy*

- McQueen, R., M.A. Alb. Prof.

- Jones, R. F., M.A. Liv.

(Sociol.) Asst. Prof.

- Grant, H. C., Ph.D. Stan., B.S.A.,  
M.A. Asst. Prof.  
Waines, W. J., M.A. Asst. Prof.

*Zoology*

- Wardle, R. A., M.Sc. Manc. Prof.  
Jackson, V. W., B.A. Qu., M.S.  
Minn. Asst. Prof.  
Neave, F., M.Sc. Manc. (on leave)  
Asst. Prof.  
MacLeod, J. A., M.Sc. Lectr.  
4 Demrs.

*Agriculture and Home Economics**Agricultural Engineering*

- Shanks, G. L., M.S. Iowa State  
Coll., B.S.A. Assoc. Prof

*Animal Husbandry*

- Wood, G. W., B.S.A. McG., M.S.  
Wisc. Prof.  
Brown, J. McC., B.S.A. Tor., M.S.  
Minn. Assoc. Prof.  
Cavers, J. R., B.S.A. Tor., M.S.  
Minn. (Poultry H.)  
Asst. Prof.

*Bacteriology and Animal Pathology*

- Savage, Alfred, B.S.A. McG.,  
D.V.M. Corn., M.R.C.V.S.  
Dean and Prof.  
James, N., B.S.A. Tor., M.S. Iowa  
(Bact.) Asst. Prof.  
Jamieson, M. C., B.S.A. Tor.  
(Bact.) Lectr.

*Clothing and Textiles* [Lectr.

- Groff, Clara Louise, B.S. Col.  
McFadden, Eleanor G., B.S. Iowa  
Lectr.  
Ferguson, Ruth H., M.S. Iowa  
State, B.Sc. (H.Ec.) (also  
Household Art) Lectr.

*Dairy Husbandry*

- Brown, R. W., B.S.A. Tor., M.S.  
Iowa Prof.

*Entomology*

Mitchener, A. V., B.A. McM.,  
B.S.A. Tor., M.Sc. Prof.

*Home Economics*

Hood, Grace G., B.Sc., M.A. Col.,  
Ph.D. Minn. Director.  
Moxon, Mary C., Ph.B. Chic.,  
M.A. Lectr.

*Household Art*

Allen, Lillian B., B.A. Lectr.  
Ferguson, Ruth H. (also Clothing,  
etc.) Lectr.

*Nutrition*

Hiltz, Mary C., B.S. Col., M.A. Tor.  
Asst. Prof.  
McLaughlin, Florence E. M., M.S.  
Iowa, B.Sc. (H.Ec.) Lectr.  
McMillan, A. May, B.Sc. Mt. All.,  
M.A. Col. Lectr.

*Plant Science*

Olson, P. J., B.S. N. Dak., M.Sc.  
Ill., Ph.D. Nebr. Prof.  
Walker, J. R., B.Sc. Alb., M.S.  
Minn. (Hortic.) Asst. Prof.

*Soils*

Ellis, J. H., M.S. Minn., B.S.A.  
Prof.

**Medicine**

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Bacteriology and Serology*

Cadham, F. T., B.A., M.D.,  
F.R.C.P.C. Prof.  
i Demr.

*Dentistry*

Merkeley, H. J., M.D.S. Tor.  
Lectr.

*Forensic Medicine, Toxicology  
and Medical Ethics*

Speechly, H. M., M.R.C.S.,  
L.R.C.P. Lectr.

*Laryngology and Otology*

Fletcher, G. W., M.D., F.A.C.S.  
Prof.

Leishman, A. G. V., M.D., F.A.C.S.,  
F.R.C.S.C. (Clin.)

Assoc. Prof.  
Washington, E. J., M.D.,  
F.R.C.S.C. (Clin.) ,  
Assoc. Prof.

*Medicine and Clinical Medicine*

Gilmour, C. R., M.D., C.M. McG.,  
F.R.C.P.C. Prof.

## Assoc. Profs. of Med. :

Mathers, A. T., M.D., C.M.,  
F.R.C.P.C. (Psychiatry), Dean  
of Fac.

Adamson, J. D., B.A., M.D.,  
M.R.C.P.E., F.R.C.P.C.

## Asst. Profs. of Med. :

Chown, G., O.B.E., B.A., M.D.,  
C.M. Qu., F.R.C.P.C.  
(Pædiatrics).

Warner, N. W., M.D., F.R.C.P.C.

## Lectrs. in Med. :

Bell, L. G., M.D., M.R.C.P. Lond.  
Brodie, J., M.B., B.S. Lond.,  
L.R.C.P., M.R.C.S.

McIntyre, Dougald, M.D.

McMillan, J. C., M.D., F.A.C.P.,  
F.R.C.P.C. (Röntgenol. and  
Electro-therapy).

Davidson, A. M., M.B., Ch.B.  
Edin., M.D. (Dermatol.).

Walker, S. B., L.R.C.P. Lond.,  
M.R.C.S. Eng.

Chown, H. B., M.C., B.A., M.D.  
(Pædiatrics).

Day, O. J., M.D. Tor. (Pædiatrics).  
Hossack, J. C., M.D., C.M.

Kitchen, H. D., M.M., M.D.,  
C.M.

Hollenberg, A., B.A., B.Sc., M.D.  
McEachern, J. M., M.D. Tor.,  
F.R.C.P.C.

Musgrove, W. M., M.D.

Bedford, G. V., M.D.

Mathewson, F. A. L., M.D.,  
B.Sc. (Med.).

Medovy, H., M.D.

Rodin, S., M.D.

Walton, C. H. A., M.Sc., M.D.  
10 Demrs.

*Obstetrics and Gynæcology*

MacKay, D. S., O.B.E., M.D.,  
C.M. McG., F.R.C.S. Edin.,  
F.R.C.S.C., F.C.O.G. (Gyn-  
æcol.) Prof.  
McQueen, J. D., D.S.O., M.D.,  
C.M., F.A.C.S., F.R.C.S.C.  
Assoc. Prof.

Mitchell, R. B., B.A., M.D., C.M.,  
F.A.C.S., F.R.C.P.C.  
(Obstet.) Assoc. Prof.  
McGuinness, F. G., M.D., C.M.,  
F.R.C.S.C.

(Obstet.) Asst. Prof.

Black, Elinor, M.D. (on leave)  
Lectr.

Lectrs. in Gynæcology :

Rice, C. R., M.D., C.M.  
MacCharles, C. W., M.D.  
Abbott, W. F., M.C., B.A., M.D.,  
C.M.

Lectrs. in Obstet. :

Blondal, A., M.D.  
Arthur, C. L., M.D., F.R.C.S.C.  
Kobrinisky, S., M.D., F.R.I.P.H.  
1 Demr. (Obstet.), 1 (Obstet. and  
Gynæcol.), 1 Instr.

*Ophthalmology*

Bell, P. G., D.S.O., B.A., M.D.,  
F.A.C.S. Prof.  
Campbell, W. E., B.A., M.D. Lectr  
2 Demrs.

*Pathology*

Nicholson, D., M.D., C.M.,  
M.R.C.P. Lond. Prof.  
..... Asst. Prof.  
Meltzer, Sara, M.D. Lectr.  
2 Demrs.

*Pædiatrics, v. Medicine*

*Physiology and Pharmacology*

Moorhouse, V. H. K., M.C., B.A.,  
M.D. Tor. Prof.  
Ormerod, M. J., M.D. Tor.  
Asst. Prof.

Fraser, R. H., D.P.H. Tor., B.A.,  
M.D., F.C.I.C. Lectr.

1 Demr.

*Preventive Medicine and Public  
Health*

Douglas, A. J., B.A., LL.D.,  
M.D., C.M., F.R.C.P.C. Prof.  
Jackson, F. W., M.D., D.P.H. Tor.  
Lectr.

2 Instrs.

*Surgery*

Gunn, J. A., C.B., O.B.E., B.A.,  
M.D., F.A.C.S., F.R.C.S.C.  
Prof.

1 Demr.

*Surgery, Clinical*

Gunn, J. A. Prof.

Assoc. Profs. :

Gibson, A., M.B., Ch.B. Edin.,  
F.R.C.S., F.A.C.S. (Orthop.)  
(also Lectr. in Appld. Anat.).  
Waugh, O. S., M.D., C.M. McG.,  
F.A.C.S.

Asst. Profs. :

Burns, C. W., B.A., M.D., C.M.,  
F.A.C.S., F.R.C.S.C.  
Fahrni, G. S., M.D., C.M., F.A.C.S.  
F.R.C.S.C.  
McEachern, J. D., M.D., F.A.C.S.  
Thorlakson, P. H. T., M.D., C.M.,  
F.R.C.S.C.  
Morse, H. D., M.D., C.M. McG.,  
F.R.C.S.C. (Urol.)

Lectrs. :

Abbott, A. C., B.A., M.D., C.M.,  
F.R.C.S. Edin., F.R.C.S.C.  
Corrigan, C. E., B.A., M.D.,  
F.R.C.S.  
Gardner, W. A., B.A., M.D., C.M.  
McG., F.A.C.S. (Orthop.).  
Herbert, S. G., M.D., Ch.M.  
Musgrove, W. W., M.D., C.M.,  
F.A.C.S.  
Aikenhead, D. C., M.D. (Anæsth.).  
MacCharles, M. R., M.D., C.M.,  
F.R.C.S. Edin. and Can.  
Collin, L. D., B.L., M.D. Mont.,  
F.R.C.S.C.

MacKinnon, A. P., M.D., C.M., F.A.C.S., F.R.C.S.C. (Orthop.).	<i>Therapeutics, v. Medicine</i>
McIntyre, D. F., M.D., F.A.C.S.	Physical Education
7 Demrs.	Youmans, R. W. Director.

**AFFILIATED COLLEGES** represented on the Senate, the first five having power to confer degrees in Divinity :

ST. BONIFACE COLLEGE, St. Boniface (R.C.). Rector—Rev. Joseph Béliveau, S.J., B.A.

ST. JOHN'S COLLEGE, Winnipeg (C. of E.). Warden—Rev. Canon W. F. Barfoot, M.A., D.D.

MANITOBA COLLEGE, Winnipeg (United Ch. of Canada). Principal—Rev. John MacKay, M.A., D.D.

WESLEY COLLEGE, Winnipeg (United Ch. of Canada). President—Rev. J. H. Riddell, B.A., D.D., LL.D.

ST. PAUL'S COLLEGE, Winnipeg (R.C.). Rector—Rev. John S. Holland, S.J., B.A.

MANITOBA LAW SCHOOL, Winnipeg. Dean—T. W. Laidlaw, LL.B.

## GENERAL INFORMATION

Established 1877, the Univ. was reconstituted in 1900 and 1917. For early history, see *Yearbook* for 1929. The Univ. has the sole power of conferring degrees in Arts, Science, Law, Med., Engin., Pharmacy, Agric., and Archit. in the province. It received in 1898 from the Dominion Govt. a land grant of 150,000 acres.

The buildings of the Junior Division in Arts and Sci. and the Med. buildings are in the city of Winnipeg, which, with adjacent municipalities, has a population of over 300,000. The site of the Senior Division in Arts and Sci., the Fac. of Agric. and Home Economics, the Fac. of Engin. and Archit., and the Fac. of Education, is in the municipality of Fort Garry, 7 miles from the centre of Winnipeg. Two Arts and Sci. buildings were erected there in 1932 at a total cost of \$1,163,000.

UNIV. LIBRARY, 71,563 vols. ; 493 periodicals received. There are also 4000 mounted plates, the gift of the Carnegie Corp'n. of New York for the use of the Dept. of Architecture. The Med. College has a library of 11,334 vols., and receives 225 periodicals. LABORATORIES : Anat., Bact., Bot., Chem., Engin. (Material testing—200,000 lbs., Cement, Elec.), Geol. and Mineral., Path., Physics, Physiol., Zool. MUSEUMS : Anat., Embry., Bot., Geol., Path. HOSPITALS available for clinics : 2 general (1000 beds) and several special, including tuberculosis. FARM (676 acres).

**FACULTIES.** (1) An Arts and Science Faculty providing instruction in all subjects of undergraduate courses in Arts (except 5 options), Science, Pharmacy and Commerce. (2) Medicine. (3) Engineering and Archit. (4) Agriculture and Home Economics. (5) Education. Other subjects of Arts course are taught in the affiliated Colls. Law is taught in the Manitoba Law School, which is under the direction of trustees jointly appointed by the Univ. and the Law Society of Manitoba.



MATRICULATION examn. is conducted in June by the Examn. Board of Manitoba, also a limited Matricn. in Sept. Matricn. subjects for Arts or Sci. courses: English, Hist., Maths., Latin or Greek or French or German; a second language or 2 of the following—Physics, Chem., Genl. Science, Biol.; a third language or 2 sciences not already taken, or 1 science not already taken with Home Econ. or Indust. Arts or Music or Agric. or Comml. work. Exemption from examination is allowed in the subjects of Grades IX. and X. Matricn. to pupils of the Collegiate Institutes of the province, or of the Preparatory schools in connexion with the affiliated Colleges, who are recommended for such exemption by their school principals, and also exemption from examn. in the subjects of Grade XI. Matricn. (Arts and Sci.) to recommended pupils of approved schools under certain conditions. Entrance requirements for Medicine are clear standing of two pre-medical years in Arts and Science; for Law of 2nd year in Arts, with Latin to the end, at least, of the 1st yr.; for Engineering standing of one pre-engineering year in Arts and Science, and for Architecture one pre-architectural year in Arts and Science. Members of any British or approved Univ. may be admitted *ad eundem statum* or *gradum* without Entrance examn.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Sc. (C.E. or E.E.), B.Sc. (Phar.), B.Arch., LL.B., B.S.A., B.Sc. (H.Ec.), B.Com.; 5 yrs., following 2 pre-medical yrs.—M.D.; 5 yrs.—B.A. (Hons.), B.Sc. (Hons.). Graduates in Med. of at least 2 yrs.' standing with certain prescribed training and experience may obtain Ch.M. on passing written, oral, and practical examn., and presenting a satisfactory thesis. A course involving research and governed by specl. regns. leads to the degree of B.Sc. (Med.). M.A., M.Sc., M.Arch., 1 or 2 yrs.' post-grad. course. B.Ed., 2 yrs.' post-grad. course; M.Ed., 1 yr. after B.Ed.

A UNIT SYSTEM has been adopted in the Arts and Science Faculty, the unit being "a body of work to which is assigned for instructional purposes one hour of lecture or other class-room exercise per week or one continuous laboratory period of 2 or 3 hours per week, throughout an entire session, or the equivalent." 40 units of credit in the "Junior Division" (work normally done in first two sessions) and 32 in the Senior General Division (for Honours, 48 in the Senior Honours Division) are required for the degree. Subjects are placed in groups, from each of which selection is made in accordance with definite regulations. For the B.A.—English (1 yr.), a foreign language (2 yrs.), Maths. (1 yr.), and a second yr. of English or a second foreign language are compulsory.

The M.A. may be obtained by candidates possessing the Honours B.A. of Manitoba, or an equivalent degree, by an extra year of full-time study under the direction of a committee of instructors. Candidates for the M.A. possessing the General Course B.A. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. A thesis is required as well as examn.

The M.Sc. requirements are at least one yr.'s grad. work in one or more of the Sc. depts. of the Univ. (incl. Maths.) or in the dept. of Civil Engin. or that of Elect. Engin., an examn. and a thesis. Candidates for the M.Sc. possessing the General Course B.Sc. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. While taking the LL.B. course a student may simultaneously obtain the Law Society's qualification for practice. An extra-mural course in Law may be taken by students residing in Manitoba elsewhere than in Winnipeg or environs. The LL.D. is honorary.

In the B.Sc. Engin. courses a thesis is required in the 4th yr. A summer thesis may be presented for credit by students entering the 2nd, 3rd or 4th yr. 2 yrs.' service in an Architect's office following graduation (B.Arch.) will qualify for licence to practise,

**DIPLOMAS.** Pharmaceutical Chemistry (2 yrs.' course); Agriculture (2 yrs.); Education (1 yr.). Associate in Music, Man. (A.M.M.) and Licentiate in Music, Man. (L.M.M.). In Dentistry the Univ. is the sole examining body in the province. The Univ. conducts examns. for admission to the Man. Assoc. of Graduate Nurses, to the practice of Accountancy and membership of the Inst. C.A. of Manitoba, to the practice of Architecture and membership of the Man. Association of Archts.; also qualifying examns. for the Man. Civil Service.

**FEES.** Tuition and examn. in Arts and Sc., \$120 p.a. in Junr. Divn., \$130 p.a. in Senr. Divn.; Engin. and Arch., \$190; Phm. Dipl. course, \$155; Med., 1st, 2nd, 3rd, and 4th yrs., \$240, 5th yr., \$115; Law, \$140. Licence to practise Med., \$100. Agr. Dipl. course, \$28, Degree course, \$95 (1st and 2nd yrs.) and \$125 (3rd and 4th yrs.).

**SCHOLARSHIPS** for graduates: 2 Travelling Fellowships, each \$400, offered each yr.: one to a graduate in Arts, and, in alternate years, one in Science and one in Engineering, tenable at some other seat of learning.

**RESIDENCE.** Hostels at all affiliated Arts Colls. and at the Fort Garry site.

**UNIVERSITY EXTENSION.** (1) Institute Evening Courses of a cultural character. (2) Winter Evening Business courses in Acctcy., Comml. Law, English, Pol. Econ., etc., given partly by members of regular Univ. staff. (3) Radio popular lectures and broadcasts of music chosen from the Music Syllabus. (4) Summer School. (5) Short courses in Farm Equipment Repairing, Bee-keeping, Dairying, Poultry, Home Vegetable and Fruit Growing, Home Grounds Beautification and Flower Growing, Milk Production, Egg Grading and Marketing. (6) February series of popular lectures.

**PUBLICATIONS.** *Calendars* (July), of the several faculties, free; *Manitoban* (students' paper), semi-weekly; *Annual Report*; *Historical Notes* (1877-1917); *Inaugural and Convocation Addresses*; *List of Faculty Publications*; *University Bulletin and Alumni Journal*, quarterly.

## THE YEAR 1936-37

Celebration of Diamond Jubilee of University (May 16-19), including special convocation at which 9 honorary degrees were conferred.

**BENEFACTIONS.** Carnegie Corpn. of New York, Music Set, value \$3000, consisting of gramophone, 944 records, 150 scores and 100 books on Music, also prints by Modern Amer. artists; Victor X-Ray Corpn., X-Ray machine for Dept. of Physics; General Electric Co. of Schenectady, N.Y., 5 planatron tubes for Dept. of Elect. Engin.; Prof. Schuchert of Peabody Museum, Yale Univ., 46 books on Geol.; Government of France, French books, value fr. 5000; J. T. Boyd, \$500 for special work in Educ. The following scholarships, bursaries and prizes (with yearly values as shown): J. W. Dafeo, LL.D., Chancellor of the Univ., prize of \$50 for best literary composition; Jon Sigurdson Chapter, I.O.D.E., schol. of \$50 in Music; Man. Assoc. of Archts., schol. of \$50 in Arch.; James A. Richardson, 5 schols. of \$200 each in Arts; Joseph Harris, 3 schols. of \$200 each in Arts; H. M. Tucker, 5 schols. of \$200 each in Science; William Keller, schol. of \$125 in Science; Colin H. Campbell Chapter, I.O.D.E., 2 bursaries, \$75 and \$50 respectively, in Arts and Science.

**NEW DEPARTMENTS AND POSTS.** Dept. of Commerce, with a Prof. of Commerce and a Lectr. in Accounting. Dept. of Actuarial Science with a Prof. in charge. Director of Music. Dept. and Prof. of Soils, Dept. and Prof. of Plant Science (in reorganization of Depts. in Agriculture).

OTHER DEVELOPMENTS. Curricula in Arts and Science revised. Annual Music Convocation (in Oct.) inaugurated.

EXTRA-MURAL WORK. Correspondence Courses in a few subjects of the Second Year in Arts and Science will be offered in 1937-38. No other extra-mural work permitted.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. W. E. Blatz (Univ. of Toronto), "Modern Education"; Prof. Stephen Leacock (McGill Univ.), "Education by the Yard"; Prof. Herbert Heaton (Univ. of Minnesota), "This Recovery Business."

RETIREMENTS. Prof. M. A. Parker (Chem.); Prof. F. W. Brodrick (Hortic.); Prof. M. C. Herner (Poultry Husb.); F. E. Nuttall (Librarian).

RESIGNATIONS. Prof. E. K. Brown (Engl.) apptd. Asst. Prof. Univ. of Tor.; Prof. G. P. McRostie (Agron.), apptd. Prof. in Ont. Agric. Coll., Guelph; Prof. W. Boyd (Pathol.), apptd. Prof. in Univ. of Tor.; Asst. Prof. G. R. Bisby, to take post at Kew Gardens.

DEATHS. Emer. Prof. G. A. Sproule (English); Asst. Prof. H. F. Roberts (Bot.).

HONORARY DEGREES. LL.D.—H. E. the Rt. Hon. Lord Tweedsmuir, G.C.M.G., C.H., Governor-General of Canada; Joseph Bernier, M.A., Judge, County Court, Manitoba; Ephraim Herbert Coleman, K.C., LL.B., Under-Secretary of State for Canada; Alexander Joseph Douglas, B.A., M.D., C.M., F.R.C.P.C., Health Officer, City of Winnipeg, Prof. of Preventive Med. and Public Health, Univ. of Manit.; Charles William Gordon (Ralph Connor), B.A., D.D., LL.D., Clergyman and Author; Henry Nisbet MacNeill, Barrister, Past Pres. Manit. Trustees Assocn.; John William Matheson, M.A., D.D., Dean of Rupert's Land, Prof. of Eccles. Hist. and Classics, St. John's Coll., Winnipeg; Vilhjalmur Stefansson, A.M., LL.D., F.A.G.S., Arctic Explorer; John G. Sullivan, C.E., M.A.S.C.E., M.E.I.C., Consulting Engineer; William Tier, M.A., Prof. of Maths. and Dean of Fac. of Arts and Science, Univ. of Manit.

STUDENTS. Full-time: 2446, incl. 42 graduates. Part-time: 21 graduates. Extension, 935; Summer School, 982.

DEGREES. B.A., 180; M.A., 4; LL.B., 11; B.Sc., 52; B.Sc. (H.Ec.), 48; B.Sc. (C.E.), 6; B.Sc. (E.E.), 28; B.Sc. (Phar.), 1; M.Sc., 10; M.D., 53; Ch.M., 1; B.S.A., 13; B.Arch., 3; B.Ed., 17; M.Ed., 3; Ph.D., 1.

DIPLOMAS. Agric., 7; Pharmacy, 25; Education (First Year), 44; Associate in Music, 3, Licentiate in Music, 4.

# MONTREAL UNIVERSITY

Founded 1878

PATRON—.....

CHANCELLOR—S.G. Mgr. P. BRUCHÉSI, D.Th., Archbishop of Montreal ;  
ACTING—S.G. Mgr. GEORGES GAUTHIER, Archbishop of Taronna,  
Apostolic Administrator, O. Lég. d'H.

RECTOR—Mgr. OLIVIER MAURAUULT, p. S.-S., P.D.

PRESIDENT—HON. R. DANDURAND, P.C., LL.D., Gd. Off. Lég. d'H.

PRESIDENT OF THE EXECUTIVE COMMITTEE—V. DORÉ, C. Lég. d'H.,  
D.Sc.Com.

VICE-RECTOR—CANON E. CHARTIER, M. ès A., L. ès L., D.Ph.

SECRETARY-GENERAL AND DIRECTOR OF EXTRA-MURAL RELATIONS—  
E. MONTPETIT, B.A., LL.D., K.C., D.S.P. Paris, membre de l'Ac.  
roy. lang. et litt. françaises de Belgique, Chev. O. Léop., O. Lég. d'H.

ASSISTANT SECRETARY-GENERAL—DAMIEN JASMIN, B.A., Ph.D., LL.D.

TREASURER—O. ARCHAMBAULT.

LIBRARIAN—A. FAUTEUX, B.A., Litt.D.

## TEACHING STAFF

<i>Agriculture</i> , v. <i>infra</i> Affiliated Instns.	Gardner, G., B.A., Lic. ès Sc., D. de l'U. Paris Prof.
<i>Anatomy</i> , v. also <i>infra</i> Med.— Histology	Lectrs. : Fournier, Abbé O. Prévost, Gustave. Dugal, L.-P.
Delorme, L. N., M.D. Prof.	
Masson, P., M.D. (A. Path.) Prof.	
Caumartin, P., M.D. Prof.	
Bolté, R., M.D. Prof.	<i>Botany</i>
Simard, L. C., M.D. (A. Path.) Asst. Prof.	Marie-Victorin, Frère, D.Sc. Prof. Lectrs. :
Rivard, J. H., M.D. Asst. Prof.	Rousseau, J. B. A., Ph.D.
Delage, J.-B., M.D. Asst. Prof.	Brunel, J., L. ès Sc.
2 Assts.	
<i>Applied Science</i> , v. <i>infra</i> Affili- ated Instns.	<i>Canadian Literature</i> [Prof. Chartier, Canon E., M.A., L. ès L. Paris, D.Phil., LL.D.*
<i>Art, History of</i>	
Lagacé, J. B., M.A. Laval and Montr., D. de l'U. Prof.	<i>Chemistry</i> , v. also <i>infra</i> Affili- ated Instns.
<i>Biology</i>	Baril, G. H., M.D. (Org. C.) Prof. Asst. Profs. :
Préfontaine, G., B.A., M.D. Prof.	Nadeau, H., L. ès Sc. Paris.

\* Dean of the Faculty.

Flahault, J., L. ès Sc. Lille (Phys. C.). Atherton, W. H., M.A., Ph.D., LL.D., D. ès L.

Cartier, P., B.A., L. ès Sc. (Canadian H.) Prof.

Lectrs. :

Asst. Profs. :

Barré, R., B.A., D.Sc. Paris.

Bernard, Frère A. (H. of Acadia)

Delorme, G., B.A., L. ès Sc.

Nadeau, J. M. (Gen. H.)

Labarre, J., D. ès Sc. Paris (Biol. C.).

*Journalism*, v. *infra* Social Sciences, School of

Lortie, L., D. ès Sc. Paris.

*Law*, v. *infra*

*Classics*

Chartier, Canon E., M.A., L. ès L. Paris, D.Phil., LL.D.

(Gk.) Prof.

*Mathematics*

Vadnais, Abbé R., L. ès L.

Léveillé, A., B.A. Lond. Prof.

(Latin) Lectr.

Beaupré, V. E., B.A., I.C.

Asst. Prof.

*Commerce*, v. *infra* Affiliated Instns.

Vallerand, J. P., Lic. Sc. Com.

Asst. Prof.

*Dentistry*, v. *infra*

*Medicine*, v. *infra*

*Drawing*

Lagacé, J.-B. Ind. Lectr.

*Mineralogy*, v. *infra* Affiliated Instns.

*Economics*, v. *infra* Soc. Sciences, School of

*Modern Languages* (German, Spanish, and Italian)

Jasmin, Abbé H., D.Ph., D.Th., L.E.S., M.A. Prof.

*Engineering*, v. *infra* Affiliated Instns.

*Music*, v. *infra* Attached Instns.

*English Literature*

*Pedagogy*

Atherton, W. H., M.A., Ph.D., LL.D., D. ès L. Prof.

Maurice, Abbé O., D.Péd.

(Primary) Prof.

Also for Secondary, the Profs. of the Fac. of Letters.

*French Literature*

[Prof.

Sideleau, Abbé A., L. ès L. Paris.

*Philosophy*

[Prof.

*Geography*, v. *infra* Social Sciences, School of

Forest, Rev. C., O.P., Th.M.\*

Gauthier, Abbé O., D.Th., D.Ph.

Prof.

*Geology*, v. also *infra* Affiliated Instns.

Jasmin, D., B.A., LL.D., D.Ph.

(Hist. and Critic. of Social and Econ. Doctrines) Prof.

Mailhot, A., B.A., I.C., D.Sc.A. Prof.

Lussier, Abbé J. (Exp. Psychol.) Prof.

*History*

Filion, E., P.S.S. (Theodicy) Prof.

Groulx, Abbé L., LL.D. Ott., M.A., D.Th., D.Ph.

Barbeau, A., M.D., D.Ph. (Nervous system) Asst. Prof.

(Canadian H.) Prof.

Wendling, A. V., L. ès Sc. Paris,  
I.E. (Physics) Asst. Prof.

Ind. Lectrs.:

Voyer, R. M., O.P., S.Th.L.  
(Psychol.).

Peghaire, J., C.S. Sp., D.Th.,  
D.Ph. (Critic.).

Gagnon, E., C.S.C., D.Th., D.Ph.  
(Cosmol.).

Fafard, L., C.S.V., D.Th., D.Ph.  
(Ethics).

Perrier, Abbé A., D.Th., D.Ph.  
(Social Morals).

Bastien, M. H., Ph.D. (Hist. of P.).

Guilbeault, Abbé Chs. E. (Logic).

Marie-Victorin, R. F., D.Sc.

### *Physics*

Gendreau, E., B.A., L. ès Sc. Paris,  
M.D., D.Phil. Prof.

Demers, J., B.A., L. ès Sc. Asst. Prof.  
Lectrs.:

Wendling, A. V., L. ès Sc. Paris,  
I.E.

Dufresne, O., B.A., M.D.

### *Physiology*

Asselin, E.-G., M.D. Prof.

Barbeau, A., M.D., Ph.D.  
Asst. Prof.

Gosselin, G., M.D. Asst. Prof.

### *Theology*

Profs.:

Allard, R., D.Th.

Ferland, A., D.Th.

Duchain, F., D.Th.

Boileau, J., D.Th.

Gattet, B., D.Th.

Charron, Y., D.Th.

Lesieur, R., D.Th.\*

McShane, G., D.Th.

Dupaigne, P.

Pustienne, A., D.Th.

Belcourt, E., D.Th.

Desrosiers, J.-B., D.Th.

Thibault, E., D.Th.

Boudreau, H., D.Th.

Ouimet, A., D.Th. (Hebrew and  
Gk.).

Bissonnette, R., D.Th.

Laurence, J. P., D.Th.

Duhamel, R.

Morin, C.

Belanger, V.

Ethier, W.

Dubeau, A.

Sauvé, I.

*Veterinary Science*, v. *infra*  
Affiliated Instns.

### *Law*

*Administrative and Munic. L.*

Baudouin, G., LL.D. Prof.

*Civil L.*

Demers, Hon. L. P., LL.D., J. of  
High Ct.\* Prof.

Beaulieu, E., LL.D., K.C. Prof.

Loranger, Hon. L., LL.D., J. of  
High Ct. Lectr.

*Civil Procedure*

Genest, R., LL.D. Prof.

*Commercial and Marit. L.*

Perrault, A., LL.D., K.C. Prof.

*Constitutional L.*

Cousineau, Hon. P., LL.D., J. of  
High Ct. Prof

*Criminal L.*

Morin, L. J. S., LL.D., K.C. Prof.

Gendron, L., LL.D. Prof.

*Finance, Comm. & Indust. L.*

Perrault, A., LL.D. Prof

Asst. Profs.:

Gouin, L. M., LL.D.

Gérin-Lajoie, A., LL.D.

Faribault, R., LL.L.

*Hist. of Law*

Gérin-Lajoie, A., LL.D. Lectr.

*Internat. L.*

MacKay, H., LL.D. Lectr.

<i>Notarial Procedure</i>		<i>Hygiene</i>	
Morin, V., LL.D.	Prof.	Baudouin, J. A., M.D.	Prof.
<i>Roman L.</i>		Roeh, S., M.D.	Asst. Prof.
Caron, M., LL.D.	Lectr.	<i>Legal Medicine</i>	
<i>Social Sciences, Economics</i>		Fontaine, R., M.D.	Lectr.
Montpetit, E., B.A., LL.D., K.C.	Prof.	<i>Materia Medica</i> , v. also Pharmacol. and Therap.	
<b>Medicine</b>		Pepin, J. R., M.D.	Prof.
(for subjects of the first 2 yrs.—Anat., etc., v. <i>supra</i> )		Nadeau, C., M.D.	Asst. Prof.
<i>Bacteriology</i>		<i>Medical Ethics</i>	
Frapplier, A., M.D.	Prof.	Chaput, R. P. Chs.	Prof.
Aubry, H., M.D.	Asst. Prof.	<i>Medical Physics</i>	
Bertrand, A., M.D.	Asst. Prof.	Gendreau, J. E., M.D.	Prof.
Gauthier, P.-P., M.D.	Asst. Prof.	Demers, J., B.A., L. ès Sc.	Asst. Prof.
<i>Chemistry, Physiological</i>		1 Asst.	
Baril, G.-H., M.D.	Prof.	<i>Medicine, Clinical</i>	
Nadeau, H.	Lectr.	Benoit, E. P., M.D.	Prof.
Gosselin, G., M.D.	Lectr.	Lesage, A., M.D.	Prof.
<i>Contagious Diseases</i>		Bruneau, T., M.D.	Prof.
Leduc, J., M.D.	Prof.	Asst. Profs. :	
<i>Deontology</i>		Dubé, E., M.D. (also in Pathol.).	
Parizeau, T., M.D.*	Prof.	Pubi, J. E., M.D.	
<i>Dermatology and Syphilis</i>		Robichaud, P.-A., M.D.	
Marin, A., M.D.	Prof.	Hamel, G., M.D.	
1 Clinical Assistant.		Rouleau, A., M.D.	
<i>Diseases of Children</i>		Mousseau, J. A., M.D.	
Lapierre, G., M.D.	Asst. Prof.	De Guise, A., M.D. (also in Pathol.).	
Baril, H., M.D.	Asst. Prof.	Pepin, J. R., M.D.	
Coutu, L., M.D.	Asst. Prof.	8 Clinical Assistants.	
2 Clinical Assistants.		<i>Mental and Nervous Diseases</i>	
<i>Gynæcology</i> , v. Obstetrics and Gynæcology		Bellefeuille, G. L. de, M.D.	Prof.
<i>Histology and Embryology</i>		Noel, O., M.D.	Asst. Prof.
Bouin, W., M.D.	Asst. Prof.	Larose, C., M.D.	Asst. Prof.
Bélanger, R., M.D.	Asst. Prof.	Legrand, E., M.D.	Lectr.
2 Assts.		Larivière, P., M.D.	Asst.
<i>History of Medicine</i>		<i>Neurology</i> , v. Mental and Nerv. Dis.	
Saint-Jacques, E., M.D.	Prof.	<i>Obstetrics and Gynæcology</i>	
		Ethier, A., M.D. (Clin. G.)	Prof.

\* Dean of the Faculty.

## Asst. Profs. :

Langevin, S., M.D. (Obstet.)  
 Marion, D., M.D. (Obstet.)  
 Gérin-Lajoie, L., M.D. (Gynæcol.)  
 Trudeau, R., M.D. (Clin. G.)  
 Sanche, H., M.D. (Clin. O.)  
 Magnan, A., M.A. (Clin.) Lectr.  
 3 Clinical Assistants.

*Ophthalmology, Otology and  
 Rhino-Laryngol.*

Roy, J.-N., M.D. Prof.  
 Bousquet, J.-P.-E., M.D. Prof.

## Asst. Profs. (Clinical) :

Brault, J., M.D.  
 Panneton, P., M.D.  
 Badeaux, F., M.D.  
 3 Clinical Assistants.

*Orthopædics, Clinical*

Ferron, A., M.D. Prof.  
 Dubé, E., M.D. Asst. Prof.  
 Rivard, J.-H., M.D. Asst. Prof.  
 Crépault, P.-Z., M.D. Lectr.

*Pathology, v. also Med., Clin.*

Léger, A., M.D. Prof.  
 Dubé, E., M.D. (Surg. Path.) Prof.

## Asst. Profs. :

Boucher, R., M.D.  
 Pépin, J. R., M.D.  
 De Guise, A., M.D.  
 Paré, A., M.D. (Surg. Path.).  
 Bellerose, A., M.D. (Surg. Path.).  
 Legrand, E., M.D.

*Pediatrics, v. also Orthopædics,  
 Clin.*

Lapierre, G., M.D. Prof.

*Pharmacology and Therapeutics*

Masson, D., M.D. (Therap.) Prof.  
 Pépin, J. R., M.D. (Pharmacol.)

Prof.  
 Nadeau, C., M.D. Asst. Prof.

*Pharmacy, v. infra*

*Phthisiotherapy*

Jarry, J.-A., M.D. Prof.

## Asst. Profs. :

Verschelden, L., M.D.  
 Mignault, G. E., M.D.  
 Vidal, J.-A., M.D.  
 Cholette, A.-M., M.D. Clin. Lectr.  
 Noiseux, F. O., M.D.  
 Ladouceur, L., M.D.  
 Laurier, Y., M.D.

*Radiology, etc.*

Panneton, J. E., M.D. Asst. Prof.  
 Pariseau, L., M.D. Asst. Prof.

## Lecturers :

Laquerrière, A.  
 Comtois, A.  
 Langlois, C.  
 Leonard, D.

*Surgery, Clinical, v. also Pathol*

Bourgeois, B.-G., M.D. (also in  
 Urol.) Prof.  
 Mousseau, J. A., M.D. Prof.  
 Rouleau, A., M.D. Prof.  
 Hingston, D. A., M.D. Prof.

## Asst. Profs. :

Paré, A., M.D.  
 Blagdon, L., M.D.  
 Bellerose, A., M.D.  
 Gariépy, U., M.D.  
 Langlois, E., M.D.  
 Gariépy, L.-H., M.D.  
 Amyot, R., M.D.  
 Saucier, J., M.D.  
 Prud'homme, E., M.D. (Clin.)  
 Trottier, E., M.D. (Clin.)  
 2 Clinical Assistants.

*Surgery, Operative*

..... Prof.  
 ..... Asst. Prof.  
 Fauteux, M., M.D. Lectr.

*Toxicology*

Fontaine, R., M.D. Prof  
 Rousselle, J. M., M.D. Asst

*Urology, Clinical*

Bourgeois, B.-G., M.D. Prof.



Fournier, N., M.D.	Asst. Prof.	Flahault, J., L. ès S. Lille	
Mercier, O.	Asst. Prof.	(Chem.)	Prof.

Pilon, H. J., L.Ph.m.	Prof.
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**Dentistry**

Dubeau, E., L.C.D., D.C.D.*	
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	Prof.
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Nolin, J., L.C.D., D.C.D.	Prof.
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Charron, E. H., L.C.D., D.C.D.	
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	Prof.
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Duhamel, J. A., M.D.	Prof.
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Marsan, G. A., C.R.	Prof.
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Coté, T., L.C.D., D.C.D.	Prof.
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Asselin, E. G., M.D.	Prof.
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Thibaudeau, A., L.C.D., D.C.D.	
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	Prof.
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Lantier, J. P., L.C.D., D.C.D.	Prof.
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Pineault, J. A., L.C.D., D.C.D.	Prof.
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**Asst. Profs. :**

Geoffrion, P., L.C.D., D.C.D.	
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Jutras, L. J., M.D.	
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Baril, G. H., M.D.	
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Aubry, H., M.D.	
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Renaud, J. A., L.C.D., D.C.D.	
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Charpentier, J. L., L.C.D., D.C.D.	
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5 Lectrs., 18 Clinicians and Demrs.	
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**Pharmacy, School of**v. also *supra* Chemistry

Contant, J., D.Ph.m.	Prof.
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Laurence, A.-J., L.Ph.m.	
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	Sec.-Dir. and Prof.
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.....	Prof.
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Vadboncoeur, E., L.Ph.m.	Prof.
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Quintin, A.-D., L.Ph.m.	Prof.
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Boutin, J., L.Ph.m.	Prof.
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**Asst. Profs :**

Lalonde, Henri, L.Ph.m.	
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Fervac-Laroze, A., B.Ph.m.	
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Gagnon, P. A., B.Ph.m.	
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**Social Sciences, School of**v. also *supra* Hist. and Law**Economics and Politics**

Montpetit, E., K.C., LL.D. (Econ.)	
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	Dir.
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Forest, R. P. C. (Soc. Philos.)	
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Levesque, R. P. (Soc. Philos.)	
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Vanier, G., LL.L. (Comm. Law)	
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Bruchési, Jean (Foreign Pol.)	
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Bruchési, Émile (Pub. Law)	
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Baudouin, J. A., M.D. (Hygiene)	
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Vézina, F. (Econ.)	
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Tessier-Lavigne, Y. (Human	
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Geog.)	
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Saint-Pierre, A. (Sociology)	
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Gouin, L.-M. (Indust. Law and	
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Hist. of Econ.)	
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Perrier, H. (Indust. Law)	
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Doré, V. (Finance)	
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Désy, A. (Hist. of Econ. Doc.)	
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Nadeau, Jean-Marie (Econ. Policy)	
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**Journalism**

Pelletier, G. (Redaction and Ad-	
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min.)	
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Fauteux, N. (Hist. of J.)	
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Rinfret, Hon. F.	
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Leduc, A. (Law of J.)	
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**AFFILIATED INSTITUTIONS**

AGRICULTURAL INSTITUTE at Oka, about 30 miles from Montreal, founded 1893 by the Trappist Fathers of Oka. *Director*, R. P. Leopold. 25 other staff and 10 Supts. of Practical Work for: Agr. Botany; Animal Biology and Hygiene; Animal Industry; Animal Pathol. and Bact.; Apiculture; Arboriculture; Aviculture; Buildings and Accounts; Chemistry, Geol. and Mineral; Cereals; Dairying; Entomol.; Food Preservation; French Fruit and Flower Gardening; Kitchen Gardening; Large-scale Farming and Machinery; Maths.; Physics; Physiol.; Phytopathol. and Entomol.; Polit. Econ.; Soils; Rural Econ.

\* *Dean of the Faculty.*

COMMERCE. École des Hautes Études Commerciales. Created by the Provincial Govt. in 1907. *Director*, Prof. H. Laureys. 11 other Profs., 11 Asst. Profs. and 17 Lectrs. for: Accountancy; Banking; Chemistry; Customs Legislation; Economics; English; French; Geography; Geog., Economic; German; History; Insurance; Italian; Law, Comm. and Indust.; Maths.; Philosophy; Physics; Publicity; Spanish.

OPTOMETRY, SCHOOL OF. *Director*, A. Phaneuf.

PURE AND APPLIED SCIENCE, including Engineering. The École Polytechnique, which was founded in 1874, is subsidized by the Govt. of the Province of Quebec and the principal Railways of the Dominion. *Principal*, A. Frigon. *Director*, A. Mailhot. 9 Hon. Profs., 11 Profs., 7 Asst. Profs., and 16 Lectrs. for: Architecture; Chemistry; Electricity; Electro-technics; Engineering—Civil, Elec., Mech., and Sanit.; Geology; Geometry; Graphical Statistics; Industrial Chem.; Industrial Legislation; Machine Drawing; Maths.; Mineral; Physics; Public Works; Railways; Strength of Materials; Thermodynamics.

VETERINARY MEDICAL SCHOOL at Oka. *Director*, Le R. P. Léopold. 16 other members of staff for: Anatomy; Aviculture; Bacteriology; Botany; Chemistry; Farriery; Histology; Materia Medica; Milk Inspection; Obstetrics; Parasitology; Pathology; Physiology; Serology; Zootechnics.

ENSEIGNEMENT SECONDAIRE OU CLASSIQUE. 15 Colleges for boys are affiliated to the Univ. under conditions providing for a 4 yrs.' High School course followed by a 4 yrs.' Coll. or Arts course, on the completion of which a student may qualify by examn. for a diploma admitting him to professional studies in the Univ. The Collège Marguerite Bourgeoys provides similar College or Arts course for girls.

INSTITUT PÉDAGOGIQUE POUR LES FEMMES. *Directress*, Sœur Sainte-Théophanie.

INSTITUT PÉDAGOGIQUE ST. GEORGES POUR LES HOMMES, founded 1929. *Director*, Friere Léo.

INSTITUT MARGUERITE D'YOUVILLE, École Supérieure pour garde-malades. *Directress*. Sœur Allaire.

## ATTACHED INSTITUTIONS (ÉCOLES ANNEXÉES)

CONSERVATOIRE NATIONAL DE MUSIQUE. *Director*, E. Lapierre. 6 staff.

INSTITUT NAZARETH ÉCOLE DE MUSIQUE. *Directress*, Sœur Morin. 11 other teachers.

ÉCOLE DE MUSIQUE RELIGIEUSE (Schola Cantorum). *Director*, J.-N. Charbonneau. 10 other teachers.

ÉCOLE DE DESSIN.

DOMESTIC ECONOMY, 6 schools.

ÉCOLE DE TOURISME. *Director*, W. Du Cap. 7 teachers.

CONSERVATOIRE LASSALLE (French elocution and oratory). *Director*, G. Landreau. 6 teachers.

SCHOOL OF APPLIED HYGIENE (École d'Hygiène Sociale Appliquée), attached to the Faculty of Medicine. *Director*, Dr. J. A. Baudouin. 17 teachers.

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RADIUM INSTITUTE. *Director*, Dr. E. Gendreau. Founded 1922, affiliated to the Radium Institute in Paris, 1923. Hospital attached.

## GENERAL INFORMATION

The Univ. was incorporated under its present name by an Act of the Provl. Legislature on Feb. 14, 1920. For early history, see *Yearbook* for 1929. In 1920 Faculties of Pure Science and of Letters and a School of Social, Economical and Political Sciences were formed; in 1921 the School of Dental Surgery was made a separate Faculty, and the Conservatory of Music was affiliated; in 1922 the Faculty of Philosophy was created. A Radium Institute was created in 1923. The general administration is conducted by a Senate, Commissions of Admn. and Studies, Univ. Council and Exec. Committee. Endowments: \$4,000,000 from a national subscription (1920), \$1,000,000 from the Provl. Govt., and \$1,000,000 from the Seminary of St. Sulpice.

**LIBRARY**, 126,000 vols. Each Faculty and School has the necessary teaching collections and laboratories.

**FACULTIES**. Theol. (constituted by the Grand Seminary of St. Sulpice); Philosophy; Law; Med.; Letters; Sciences; Dental Science. Incorporated in the Univ. are Schools of Pharmacy, and Social, Econ. and Polit. Science.

**DEGREES AND DIPLOMAS**. Courses in the incorporated and affil. institns. include—a 5 yrs.' course in the Éc. Polyt. for the B. ès Sc. App.; 4 yrs. in the Veterinary School for the D. en Méd. Vét.; 4 yrs. in the Éc. de Ch. Dent. for the D. en Ch.D.; 4 yrs. in the Éc. de Phm. for the B. en Ph. and D. en Ph.; 4 yrs. in Inst. Agric. d'Oka for the L. en Agr., B. en Agr. and D. en Sc.Agr.; 3 yrs. in the Éc. des H.É. Comm. for a L. en Sc. Com. and B. en Sc. Com. Courses leading to degrees in Music at the Conservatoire National de Musique and at the Éc. Sup. de Musique des Sœurs des SS. NN. de Jésus et de Marie.

**PUBLICATIONS**. *Annuaire général* (June); *La Revue trimestrielle canadienne*; *L'Actualité économique*.

## THE YEAR 1936-37

**NEW BUILDINGS** in construction on the "Mont-Royal."

**EXTRA-MURAL WORK**. Radio lectures under the auspices of the Canadian Radio Commission (Radio-Canada).

**VISITS FROM OTHER UNIVERSITIES**. Dr. Maurice Chiray, professeur agrégé de la Faculté de médecine de Paris; M. René Demogue, professeur à la Faculté de droit de Paris; M. Louis Baudin, professeur à la Faculté de droit de Paris; Dr. Étienne Sorrel, professeur d'enseignement clinique à l'Hôpital Trousseau de Paris; M. Marcel Aubert, membre de l'Institut, professeur à l'École des Chartes et à l'École des Beaux-arts, conservateur adjoint des Musées Nationaux; René Moricard, ex-interne des Hôpitaux de Paris, ancien chef de clinique.

**DEATHS**. Dr. Ernest Gariépy, clinicien à l'Institut Bruchési; Dr. Amédée Marien, professeur émérite à la Faculté de médecine; Aurilien Boyer, ingénieur, principal honoraire de l'École Polytechnique; Dr. René de Cotret, professeur émérite à la Faculté de médecine; Mère Sainte-Anne-Marie, fondatrice et directrice de l'Institut Pédagogique Notre-Dame, supérieure du Collège Marguerite-Bourgeoys; Henri Lancot, vice-président de l'École de pharmacie.

**HONORARY DEGREES**. *D. en Mus.*—Sœur Marie-Valentine, M. Frédéric Pelletier.

**STUDENTS**. Full-time: 7428, including 924 graduates. Part-time: 1894, including 189 graduates.

DEGREES. B.A., 26 ; L.Th., 2 ; B.Th., 1 ; LL.D., 10 ; LL.L., 14 ; LL.B., 26 ; M.D., 52 ; Ph.D., 0 ; Ph.L., 0 ; L. es Lett., 12 ; M. ès Lett., 11 ; M. ès Sc., 6 ; L. ès Sc., 12 ; D.S.C., 2 ; D.C.D., 16 ; D.M.V., 6 ; B.S.Ap., 34 ; B.S.A., 11 ; L.S.A., 12 ; L. ès Sc. Compt., 7 ; L.S.Com., 32 ; B.Sc.C., 9 ; I.C., 40 ; Lic. Sc. soc. écon. et pol., 25 ; B. en Pharm., 3 ; B. en Opt., 3 ; Dipl. Journ., 13 ; L. Pédag., 3 ; B. Pédag., 12. B. en Mus., 12 ; Lic. en Mus., 4 ; M. en Mus., 5 ; D. en Mus., 4 ; Dip. Hyg. Soc. Ap., 16.

# MOUNT ALLISON UNIVERSITY, SACKVILLE, N.B.

Founded 1858

CHAIRMAN OF THE BOARD OF REGENTS—R. C. TAIT, LL.D.

PRESIDENT OF THE SENATE—G. J. TRUEMAN, Ph.D. Col., M.A.

SECRETARY AND LIBRARIAN—Prof. F. W. W. DES BARRES, B.A., D.D.

REGISTRAR—.....

## TEACHING STAFF

<i>Art, v. School of Fine Arts, infra</i>	Flemington, Rev. W. T. R., B.Pæd. Tor., M.A.      Lectr.
<i>Biology</i>	<i>Engineering</i>
Fraser, R., B.S.A. Tor., M.A. Kansas      Prof.	McKiel, H. W., B.A., B.Sc. Qu. (Mech.E.)      Brookfield Prof.
Ingalls, R. A., B.A. Acad., M.Sc., Ph.D. Rutgers      Asst. Prof.	West, F. L., B.Sc. McG., M.A. Director, McClelan Sch. of E.
Potter, J. M., B.A.      Instr.	Binns, F. W., B.S. Tufts, M.S. Purdue (E. Drawing)      Instr.
<i>Chemistry</i>	<i>English Lang. and Lit.</i>
Bigelow, H. E., Ph.D. Harv., F.R.S.C.      Prof.	Trueman, A. W., M.A. Ox. Joseph Allison Prof.
Cuthbertson, A. C., Ph.D. McG. Asst. Prof.	Gundy, H. P., M.A. Tor. Asst. Prof.
MacLaughlan, D. M., Ph.D., McG., B.Sc.      Lectr.	1 Asst.
Instructors :	<i>French</i>
Gornall, A., B.Sc.	Laidlaw, G. N., B.A. Ox.      Lectr.
Matthews, F. W., B.Sc.	Hamilton, Jean, Ph.D. Paris Tutor.
Taylor, W. Dixon, B.A.	2 Assts.
<i>Classics</i>	<i>Geology</i>
Cohoon, J. W., M.A. Tor., Ph.D. Princet.      Wood Prof.	McKiel, Prof. H. W.      Lectr.
Wall, Georgie M., M.A. Chic., B.A. (Latin)      Asst. Prof.	Eardley, A. G., B.A., B.Sc.      Instr.
<i>Economics and Sociology</i>	<i>German</i>
Tucker, Rev. H., B.A. Acad., M.A. Harv., Ph.D. Hartf. Joseph L. Black Prof.	Hübener, G., Ph.D. Bonn      Prof.
<i>Education</i>	<i>History</i>
Trueman, G. J., Ph.D. Col., M.A. Prof.	Stanley, G. F. G., M.A., B.Litt., D.Phil. Ox.      Prof.

<i>Home Economics</i> , v. School of Home Econ., <i>infra</i>	Geldart, Ll. P., B.A.	Instr.
<i>Homiletics</i>	Soley, R., B.Sc.	Instr.
MacKinnon, Rev. C., M.A. Edin., D.D. Manc., LL.D. Dal.	Watters, J. A.	Instr.
<i>Hygiene</i>	<b>School of Home Economics</b>	
Gass, C. L., B.A., M.D., C.M. Dal.	Runciman, Doris, B.S., M.A. Col.	Director.
<i>Mathematics</i>	Cooke, Ruth H., B.A. Tor.	Instr.
McEwen, W. H., M.Sc. Sask., M.A., Ph.D. Minn. Prof.	Garrett, Mrs Mabel (Clothing)	Instr.
Nickerson, J. L., M.A. Dal., Ph.D. Princet.	2 Assts.	
<i>Music</i> v. Conservatory of Music, <i>infra</i>	<b>Conservatory of Music</b>	
<i>New Testament Exegesis</i>	Hamer, H. S., F.R.C.O.	Director and Prof. of Organ and Harmony.
Brecken, Rev. E. R., M.A., D.D. Prof.	Brunton, J. N., Dip.Stern Cons. Berlin (Piano)	Prof.
<i>Philosophy</i>	Peake, Ethel (Voice)	Instr.
Krug, Rev. C. A., M.A. Tor., B.D. Vict. Massey Prof.	Smith, Clara S. (Violin)	Instr.
1 Asst.	3 Assts.	
<i>Physics</i>	<b>School of Fine Arts</b>	
MacGregor, D. G., M.A. Ox. Prof.	Royle, S., R.B.A., A.R.W.A., A.R.C.A.	Director and Prof. of Drawing and Painting
Nickerson, J. L., M.A. Dal., Ph.D. Princet.	3 Assts.	
Asst. Prof.		

## GENERAL INFORMATION

Mount Allison University was founded as a degree-giving body in 1858 under the name "Mt. Allison Wesleyan College." For early history, see *Yearbook*, 1929.

The UNITED CHURCH of Canada controls the administration on strictly non-sectarian principles; many students belong to other religious denominations.

**LIBRARY**, 40,000 vols. **Engineering WORKSHOPS** with gasoline engine, etc.

**FACULTIES.** Arts, Science, Engineering.

School of Home Economics, Conservatory of Music, School of Fine Arts.

**DEGREE COURSES.** 5 yrs., B.Mus.; 4 yrs. (from "Junior" Matricn.), B.A., B.Sc., B.F.A., "Senior Matricn." Certifs. (e.g. N.S. Provl. Educn. Dept., grade A) admit to 2nd yr. of B.A. or B.Sc. course. Diplomas from Prince of Wales Junior Coll. and Memorial College, Newfoundland, admit to 3rd yr.

**HIGHER DEGREES.** Open to B.A. with Hons. of 1 yr.'s standing, M.A.; to B.Sc. with Hons. of 1 yr.'s standing, M.Sc.; Honorary, LL.D., D.C.L.

**CERTIFICATES.** Finance and Commerce, 2 yrs.; Secretarial, 3 yrs. Students taking Certif. in Applied Sci. (3 yrs.' course) are admitted without examn. to the N.S. Tech. Coll. (see p. 434).

FEES, annual: Arts, £150 for 5 subjects; Engin., \$165-\$180; registration \$4.

RESIDENCE. Accommodation in the Univ. for 220 men and 135 women.

PUBLICATIONS. *Calendar* (June); *Argosy* (students'), weekly, and *Mt Allison Record*, monthly; the Webster and the Wood lectures.

### THE YEAR 1936-37

RETIREMENT. Prof. W. M. Tweedie (English), after fifty years of service.

RESIGNATIONS. Prof. C. C. Colly (German); Prof. W. H. Trethewey (French).

HONORARY DEGREES. *LL.D.*—Hon. Albert Pierce Paterson, Charles Herbert Huntis, William Morley Tweedie.

STUDENTS. Full-time: 425, including 8 graduates. Part-time: 16. Extens. Dept., 52; Summer School, 172.

DEGREES. M.A., 2; B.A., 46; B.Sc., 8; B.Sc. (Househ. Sci.), 11; Mus. Bac. 4.

# UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

Founded 1859

VISITOR ON BEHALF OF H.M. THE KING—THE LIEUT.-GOVERNOR OF  
NEW BRUNSWICK.

PRESIDENT—C. C. JONES, M.A., Ph.D., LL.D., D.C.L.

REGISTRAR—J. W. SEARS, B.A. Ox.

## TEACHING STAFF

*Biology* [Prof.  
Argue, C. W., B.A., M.Sc. McGill.

*Chemistry*  
Toole, F. J., Ph.D. McGill, M.Sc. Prof.  
Wright, R. H., Ph.D. McGill, B.A. Asst. Prof.

*Classics and Anc. Hist.*  
Cattley, R. E. D., B.A. Camb. Prof.

*Economics and Politics*  
Keirstead, B. S., B.A. Ox. Prof.

*Engineering*  
Turner, E. O., S.B. Mass. I. Tech. Prof.  
(Civil E.)  
Stephens, J., M.A., M.A.I. Dub., M.I.C.E.I., D.Sc. (Mech. E. and Drawing) Prof.  
Hagerman, E. W., B.Sc. Demr.

*Engineering, Electrical*  
Baird, A. F., M.Sc. Prof.

*English and Mod. Hist.*  
McPherson, M., M.A. Edin. Prof.

*Forest Engineering*  
Flieger, B. W., B.Sc. Prof.

*Forestry*  
Gibson, J. Miles, B.Sc. Prof.

*French and German*  
Pugh, R. W. B., B.A. Ox. Prof.

*Geology*  
Wright, W. J., Ph.D. Yale, F.R.S.C. Prof.  
McKenzie, G. S., Ph.D. Tor. Assoc. Prof.

*Law*  
Sears, J. W., B.A., B.C.L. Ox. (Contracts, Real Property Torts and Crimes). Lectr.

At St. John :  
Hazen, Sir Douglas, C.J., K.C.M.G., B.A., LL.D. Dean of Faculty  
McInerney, H. O., M.A., B.C.L., LL.D. Prof.  
15 Part-time Lectrs.

*Mathematics*  
The President Prof.  
Jones, W. G., B.Sc. Asst. Prof.

*Philosophy and Education*  
Keirstead, W. C., Ph.D. Chic., M.A., D.C.L. Acadia Prof.

*Physics*  
Priestman, B., B.A. Camb., M.Sc., Ph.D. McGill Prof.  
Wood, N., B.Sc. Demr.



## GENERAL INFORMATION

The "College of New Brunswick" was incorporated in 1800 by Provincial Charter, re-incorporated in 1828 by Royal Charter as "King's College," and merged in 1859 in the Univ. of N.B. established in that year. A Faculty of Law was established in 1923 in St. John, taking over, with some changes, the work of the former King's College Law School. The Provincial Govt. appoints the President and a majority of the governing body, called the Senate, of which the Chief Supt. of Education for the Province is *ex officio* a member. The annual grant from Provincial revenues is \$25,000.

**LIBRARY:** 40,000 vols. **MUSEUMS:** Natural History (rich in birds). **LABORATORIES:** Bot., Chem., Engin., Geol., Phys., Psych. **OBSERVATORY:** Telescope with 6" clear aperture.

**DEPARTMENTS.** Arts, Applied Science (Engineering and Forestry), Law.

**DEGREE COURSES.** 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. (in Pure Science, Engin. or Forestry). 3 yrs., B.C.L. The "Senior" Matricn. (or equivalent) Certif. admits to the 2nd year.

**HIGHER DEGREES.** Open to B.A. of 2 yrs.' standing, M.A.; to B.Sc. in Pure Science of 2 yrs.' in Engin. or For. of 5 yrs.' standing, M.Sc.; D.Litt., D.Sc., LL.D. (Hon.).

**FEES,** tuition, annual: Arts, \$100; Engin. or Forestry, \$120.

**PUBLICATIONS.** *Calendar* (January); *Brunswickian* (Students' weekly).

## THE YEAR 1936-37

**BENEFACTIONS.** Provincial Government additional assistance, \$15,000. For Scholarships: Rt. Hon. Lord Beaverbrook. Devon Scholarships Annual value \$500 each for four years.

**HONORARY DEGREES.** LL.D.—G. T. McNally, Deputy Minister of Education for Province of Alberta. D.Sc.—W. K. Hatt, Head of Dept. of Civil Engineering, Purdue Univ.

**STUDENTS.** Full-time: Arts and Pure Science, 260; Law, 40.

**DEGREES.** B.A., 27; M.A., 5; B.C.L., 12; B.Sc., 9; M.Sc., 1; B.Sc. (Civil Engin.), 8; B.Sc. (Elect. Engin.), 9; B.Sc. (Forestry), 4.

# UNIVERSITY OF OTTAWA

Founded 1866

VISITOR—Col. Hon. H. A. BRUCE, LL.D. Tor., Western, Qu., M.D. Tor.,  
F.R.C.S., Lieut.-Governor of Ontario.

APOSTOLIC CHANCELLOR—Most Rev. G. FORBES, D.D., Archbishop of  
Ottawa.

RECTOR—Very Rev. J. HEBERT, O.M.I., M.A., Ph.D., L.Th.

VICE-RECTORS—Rev. A. CARON, O.M.I., D.Ph., D.Th., D.C.L. ; Rev.  
H. POUPART, O.M.I., D.Ph., D.Th. Rome.

SECRETARY—Rev. L. P. CORNELLIER, O.M.I., D.Ph., D.Th. Rome.

TREASURER—Rev. I. PIGEON, O.M.I., B.A.

## PROFESSORS

[t = Faculty of Theology, Com = Commerce, cl = Faculty of Canon Law,  
p = Faculty of Philosophy, a = Faculty of Arts, Canon Law and  
Philosophy, ns = Normal School, sm = School of Music, sn = School  
of Nursing, Soc = School of Sociology and Political Science.]

Acland, Mary E., R.N.—sn.

Ahern, Alice, R.N.—sn.

Alice de Marie, Rev. Sr., S.G.C.,  
R.N.—sn.

Allie, Rev. L., O.M.I., L.Ph.,  
D.Th.—t.

Auger, Mrs. L. L., G.S. Paris—sm.

Barabe, Rev. P. H., O.M.I., B.S.  
Montr., L.Ph., L.Th., B.C.L.  
—t.

Bechard, J., B.A., B.Ped. Tor.  
—ns.

Belier, Victorine, R.N.—sn.

Bissonnette, Pauline, R.N.—sn.

Bradley, Rev. F., D.Ph., L.C.L.—a.

Buxton, G., M.A.—a.

Campbell, G. A., M.D. Tor.,  
F.R.C.P.—sn.

Caron, Rev. A., D.Ph., D.C.L.,  
D.Th.—t, a.

Caron, Rev. D., O.M.I., B.A.,  
L.Ph., L.Th.—a.

Caron, Rev. V., D.Ph., D.Th.  
Rome—t.

Charbonneau, Mgr. J., P.D., D.Ph.,  
D.C.L., D.Th.—a.

Charbonneau, L., M.A.—ns.

Charpentier, Fulg.—a.

Cornellier, L. P., O.M.I., D.Ph.,  
D.Th. Rome—p, a.

Danis, Rev. L., O.M.I., M.A.,  
D.Ph., L.Th., B.C.L.—a.

Davault, P.—a.

Devy, Rev. V., S.M.M., D.Ph.,  
D.Th. Rome—t.

Dubé, Rev. H., O.M.I., D.Sc.,  
D.Ph., D.Th. Rome—a.

Dunning, H., B.A., M.D. Tor.,  
C.M.—sn.

Fusey, Rev. A., O.M.I., B.A.,  
L.Ph.—a.

Gendron, Rev. J., O.M.I., Ph.D.,  
L.Th.—p, a.

Gendron, Rev. R., O.M.I., L.Ph.,  
L.Th., M.A. Columbia.

Gravel, Rev. J., O.M.I., B.A.  
Montr., L.Ph., B.Th.—sn.

Groulx, Rev. L., LL.D., D.Ph.,  
D.Th., D.Litt. Montr.,  
F.R.S.C.—a.

Guay, Rev. A., O.M.I., B.A.,  
L.Ph., L.Th., L.J.C.—a, cl.

- Hamel, Rev. A., Ph.D., D.Th.  
Rome—p.
- Julien, G. O., M.A., L.Ph.—a.
- L'Abbé, Rev. J., O.M.I., B.Th.,  
L.Th.—a.
- Laframboise, Rev. J. C., O.M.I.,  
D.Ph., D.Th. Rome—t.
- Lamoureux, Rev. R., O.M.I.,  
D.Ph., L.Th.—ns.
- Lancot, G., B.L., LL.M. Ox.,  
Litt.D. Paris, F.R.H.S., C.R.
- Landry, Helene, A.C.C.M.,  
C.E.N.M., G.I.M. Paris—sm.
- Lapointe, H., M.D. McGill,  
F.R.C.P.—sn.
- Latour, Rev. C., O.M.I., B.A.,  
L.Ph., L.C.L.—sm.
- Latrémouille, Rev. R., Ph.D.,  
D.C.L.
- LeBel, M. W., B.A., L.Ph., M.D.  
McG., C.M., L.M.C.C.—a.
- Leblanc, Rev. C., O.M.I., Ph.D.,  
L.Th.—a.
- Leblanc, Rev. R., O.M.I., D.Ph.,  
L.Th.—p.
- Lemieux, H., B.A.—ns.
- Lomer, T. A., M.D., M.C., Ph.D.—  
sn.
- MacHaffie, L., M.D., M.C.—sn.
- Madeleine de Jesus, Rev. Sr.,  
S.G.C., R.N., B.Sc. in N.  
—sn.
- Maheu, R., B.A., L.Com. Montr.  
—com.
- Marcotte, Rev. F. X., O.M.I.,  
D.Ph., D.Th. Rome—a.
- Marie-Alban, Rev. Sr., S.G.C.,  
R.N., B.Ph.—n.
- Marion, S., M.A., D.Litt. Paris,  
L.Ph.—a.
- Matte, Rev. H., Ph.D., D.Th.  
Rome—t.
- Mayrand, L., B.A. Montr., L.S.Sc.  
Paris, LL.D. Montr.—a., Soc.
- Morvan, Rev. G., O.M.I., B.A.  
Montr.—a.
- Normandin, Rev. R., O.M.I.,  
D.Ph., L.Th. Rome—p.
- Ollivier, M., B.A., LL.D., K.C.  
—cl.
- Pagano, Rev. S., O.M.I., Ph.D.,  
L.Th., L.H.S. Rome—t.
- Pelletier, Rev. A., O.M.I., M.A.—a.
- Pelletier, Rev. S., O.M.I., D.Ph.,  
B.Th. Rome—p.
- Poulet, Rev. D., O.M.I., D.Th.,  
L.H.S.—t.
- Poupart, Rev. H., O.M.I., D.Ph.,  
D.Th. Rome—a.
- Powers, A., B.A., M.D. McGill  
—sn.
- Powers, M., B.A., M.D. McGill—  
sn.
- Renaud, Rev. E., O.M.I., B.A.,  
M.A. Cath. Inst., Lille, L.Ph.,  
D.Sc.—a.
- Retty, J., M.A., D.Ph. Princeton  
—a.
- Royal, Rev. E., O.M.I., M.A.,  
L.Litt., L.Ph., D.Th.—a.
- Sauvé, Rev. G., O.M.I., D.Ph.,  
D.S.C., D.Soc.Sc.—a, p.
- Senecal, Rev. R., O.M.I.—Com.
- Simard, Rev. Geo., O.M.I., D.Ph.,  
D.D.
- St.-Denis, Rev. H., O.M.I., D.Ph.,  
D.Th., B.Ped. Tor.—p.a.
- St. Denis, R., B.A., B.Ped.—ns.
- Thivierge, Rev. E., O.M.I., B.A.,  
L.Ph., B.Th.—a.
- Trudel, Rev. R., O.M.I., B.A.,  
D.Ph., L.Th.—p.
- Viau, H., M.D. Montr.—sn.
- Watson, E., B.A., B.Ped.—ns.
- Watt, W. G., M.D., M.C.—sn.

## GENERAL INFORMATION

The "College of Bytown," incorporated in 1849, changed its name in 1861 to "College of Ottawa," and became in 1866 the Univ. of Ottawa with power to grant degrees. By a papal brief dated Feb. 5, 1889, it was accorded the status of a Catholic University. The Univ. is conducted by the Oblate Fathers

of Mary Immaculate. Special aim : to provide students of English or French descent with a thorough bilingual education.

**AFFILIATED INSTITUTIONS.** Congrégation de Notre-Dame, Ottawa ; Convent of Our Lady of the Sacred Heart, Ottawa ; Mother-House of the Grey Nuns of the Cross, Ottawa ; Convent of Notre-Dame de Lourdes, Ottawa ; Mathieu College, Gravelbourg, Saskatchewan ; The Grand Seminary, Ottawa ; The Vianney School, Ottawa ; Sacred Heart College, Regina, Sask. ; Juniorate of St. John the Apostle, Edmonton, Alta. ; Collège Thévenet, Gravelbourg, Sask. ; Ottawa General Hospital (Training School for Nurses) ; St. Teresa Academy, Medicine Hat, Alta. ; Convent of the Sisters of Providence of St. Brieux, Prud'homme, Sask.

**LIBRARY,** 38,000 vols. The Parliament Library, to which students have access, has 300,000 vols. **MUSEUMS :** In the Univ.—Geol. and Natural Hist. ; access also to Geol. Survey Dept. Museum. The Dominion Observatory and Canadian Fisheries Museum are located in Ottawa. **LABORATORIES :** Chem., Phys., Biol.

**DEGREES, ETC.** B.A., B.L., B.Sc., B.Com., B.Sc., in Nursing ; M.A., B.L. (Lit.), B.Ph., B.Th., D.D., LL.D. (Hon.), L.Ph., D.Ph., L.Th., B.C.L. (Canon Law), L.C.L., D.C.L., D.Sc., L.Litt., D.Litt. The Arts course leading to the B.A. or B.L. covers 4 yrs., the work of the Fifth to the Eighth "Forms," that of the first 4 Forms being preparatory to matriculation. Extra-mural students may appear for examn. without attending classes in the Univ. for more than 1 yr. The B.Th. and the L.Th. involve respectively 2 and 4 yrs.' study of Theology after the completion of a classical course including 4 yrs. of special philosophy ; the B.Ph. and the L.Ph. respectively 2 and 3 yrs.' study after the B.A. Marks assigned for the exercises of students are read in public once a month, and monthly reports are sent to parents.

**COURSES OF STUDIES.** High School (classical or commercial), Arts Course (complete), Commerce (leading to B.Com.), Normal School (for teachers in the bilingual schools of Ontario), Pre-Medical Course, Music (leading to the certificate of B.M., L.M., D.M.), Social Science (3-yr. course), Philosophy (4-yr. course for the degree of D.Ph.), Canon Law (3-yr. course for the degree of D.C.L.), Theology (5-yr. course for the degree of D.D.), Evening Courses (for High School and Arts subjects), Summer Courses (in Pedagogy, Gregorian Chant, etc.). Graduate courses : two yrs. for M.A. Degree, and 3 yrs. for D.Ph.

**FEES.** For Tuition, \$100. For Board and Residence per year, \$300. Degrees from \$5 to \$75.

**RESIDENCE.** Students whose homes are not in Ottawa are required to live in the Univ. building.

**PUBLICATIONS.** Calendar of the High School Department ; Calendar of the Faculty of Arts ; Announcement of the Canonical Faculties ; University of Ottawa Normal School Year Book ; Examination Papers in Arts (10 cts. for each set) ; Annuaire du cours d'immatriculation ; Annuaire de la faculté des arts ; Programme d'études des facultés canoniques ; Questions d'examen d'immatriculation et de la faculté des arts.

## THE YEAR 1936-37

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. A. Tessier (Montreal), "Canadian History and Geography" ; Prof. L. Daviault (Laval), "The Social Life of Insects."

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Rev. A. Caron, "Theology"; Rev. G. Sauvé, "Social Credit," "Corporatism."

HONORARY DEGREES. *LL.D.*—Hon. Justice P. Kerwin, Supreme Court of Canada, Legist; Hon. Justice E. R. Angers, Court of the Exchequer, Legist; Hon. Justice E. R. Chevrier, Supreme Court of Ontario, Legist; Rev. Dr. T. W. Albin, Medicine and Social Service.

STUDENTS. Full-time: 1339, including 51 graduates. Part-time: 191, no graduates.

DEGREES. B.D., 6; D.D., 2; B.A., 95; M.A., 18; Ph.D., 1; B.C.L., 2; L.C.L., 1; D.C.L., 3; B.Ph., 11; L.Ph., 11; B.Sc., 2; Lic.D., 9.

# QUEEN'S UNIVERSITY, KINGSTON, ONTARIO

Founded 1841

CHANCELLOR—JAMES RICHARDSON, B.A., LL.D.

PRINCIPAL AND VICE-CHANCELLOR—R. C. WALLACE, M.A., Ph.D., LL.D., D.Sc.

RECTOR—Hon. N. McL. ROGERS, M.A., B.Litt., B.C.L. Ox. LL.D. McM., M.P.

VICE-PRINCIPAL AND TREASURER—W. E. MCNEILL, M.A., Ph.D., D.C.L., LL.D.

REGISTRAR—JEAN I. ROYCE, M.A.

LIBRARIAN—E. C. KYTE.

## TEACHING STAFF

### *Accounting*

Walker, C. E., B.Sc. (Acc.), C.A.  
(v. also Com.) Prof.

Smails, R. G. H., B.Sc. (Econ.),  
A.C.A. (v. also Com.) Prof.

Currie, A. W., M.B.A. Harv., B.A.,  
B.Com. Lectr.

Macpherson, L. G., B.A., C.A.  
Instr.

1 Demr.

### *Anatomy, v. also infra Med.—Surg.*

Matheson, D. C., M.B. Prof.

Salsbury, C. R., M.D., C.M.  
Asst. Prof.

Harbeson, A. E., B.A., M.D., C.M.  
Demr.

### *Banking*

Knox, F. A., B.A. (v. also Pol. and  
Econ. Sci.) Prof.

### *Biochemistry v. infra, Medicine*

### *Biology*

Earl, R. O., M.Sc., Ph.D. Chic.,  
B.A. Prof.

Stanley, John, Ph.D. Minn., M.A.  
(Botany) Assoc. Prof.

Krotkov, G., M.A., Ph.D. Tor.,  
B.Sc. Prag. Asst. Prof.

Curran, H. W., M.Sc. Mich.  
Lectr.

3 Assts.

### *Chemistry, v. also Engin.*

Neish, A. C., M.A., Ph.D. Col.,  
B.A. Prof.

McRae, J. A., Ph.D. Manc., M.A.,  
F.I.C. Prof.

Logan, J. F., M.A. Acadia, Ph.D.  
Yale, F.C.I.C. (Biochem.)

Assoc. Prof.

Frost, G. B., B.A. Tor., Ph.D. Cal.  
Assoc. Prof.

Munro, L. A., M.A. Dal., Ph.D.  
McG. Assoc. Prof.

Dorrance, R. L., M.A. Tor.  
Asst. Prof.

Martin, J. A., M.A. Instr.  
12 Tutors.

### *Classics*

Tracy, H. L., B.A. Tor., Ph.D.  
Chic. Prof.

Law, L. E., B.A. Lond., M.A. Ox.  
(Anc. Hist.) Assoc. Prof.

Macdonnell, Mary L., M.A.

Asst. Prof.

Shurtleff, H. S., Ph.D. Yale, B.A.

(Latin) Lectr.

Day, A. A., M.A. Tor. Lectr.

*Commerce and Business Administration*, v. also Accounting

Mackintosh, Prof. W. A., M.A.,

Ph.D. Harv. (v. also Pol. & Econ. Sci.) Director.

Walker, C. E., B.Sc. (Acc.), C.A.

Assoc. Prof.

Smails, R. G. H., B.Sc. (Econ.),

A.C.A.Eng. Assoc. Prof.

McDougall, J. L., M.A. (also Pol.

and Ec. Sci.) Asst. Prof.

Currie, A. W., M.B.A. Harv.,

B.A., B.Com. (Marketing)

Lectr.

Macpherson, L. G., B.A. Brandon,

C.A. Instr.

*Economics*, v. Polit. and Econ. Sc.

*Engineering*, v. also Mining E.

Macphail, A., C.M.G., D.S.O.,

B.Sc., LL.D. (General E.) Prof.

Arkley, L. M., M.Sc. (Mech. E.)

Prof.

Goodwin, L. F., Ph.D. Heid.,

A.C.G.I., F.I.C. (Indust.

Chem. and Chem. E.) Prof.

Wilgar, W. P., D.S.O., B.Sc. (Civil

E.) Prof.

Malcolm, L., M.A., B.Sc., M.C.E.

(Munic. E.) Prof.

Jemmett, D. M., M.A., B.Sc.

(Elect. E.) Prof.

Ellis, D. S., D.S.O., M.A., B.Sc.,

M.C.E. (Civil E.) Prof.

Jackson, A., B.Sc. (Draughting)

Prof.

Rutledge, L. T., B.A.Sc. Tor.

(Mech. E.) Assoc. Prof.

Low, R. A., B.Sc. (Civ. E.)

Asst. Prof.

Stewart, H., B.Sc. (Elect. E.)

Asst. Prof.

Lectrs. :

Styles, H. J., B.Sc. (Draughting).

Pollock, H. S., M.Sc. (Elec.E.).

Leggett, R. F., M.Eng. Liv. (Civil E.)

Conn, H. G., B.Sc. (Mech.E.).

Dolan, M. A., B.Sc. (Hydraulics) Demr.

Baiden, A. C. (Shop work).

Connolly, W. E. (Shop work).

9 Tutors, 7 Demrs., 3 Instrs.

### English

Clarke, G. H., M.A., D.Litt. McM.,

F.R.S.C. Prof.

Roy, J. A., M.A. Edin. Prof.

Alexander, H., M.A. Liv. Prof.

Gordon, Wilhelmina, M.A.

Assoc. Prof.

Angus, W., B.S. Bowdoin, Ph.D.

Cornell Lectr.

Vincent, C. J., B.A. Western, M.A.

Harv. Lectr.

8 Tutors.

### French

Campbell, P. G. C. M.A. Ox., D.

de l'U. Paris Prof.

Tirol, M., L. ès L. Paris, Ph.D.

Lond., O.A. Assoc. Prof.

Conacher, W. M., B.A. Lond.,

D. ès L. Montr. Assoc. Prof.

Walpole, H., M.A. Camb. Lectr.

McConnell, Mme. Jeanne M., B.S.

Instr.

2 Tutors.

### Geology

Baker, M.B., B.A., B.Sc., F.G.S.A.,

F.R.S.C. Prof.

Bruce, E. L., M.A., Ph.D. Col.,

B.A., B.Sc., F.R.S.C.,

F.G.S.A.

Miller Memorial Research

Prof.

Rose, B., Ph.D. Yale, B.Sc.,

F.R.S.C., F.G.S.A. Prof.

Buerger, N. W., S.B., S.M., Ph.D.

Mass. Inst.Tech. Lectr.

### German

Henel, H., Ph.D. Frankf. Prof.

Laird, Hilda C., B.A. Asst. Prof.

Gilmour, S. M., B.A. Manit., B.D.  
Union Theol. Seminary Lectr.

*Hebrew*, v. Semitic Langs.

*History*

Trotter, R., B.A. Yale, M.A., Ph.D.  
Harv. (Canadian and Colonial  
H.) Douglas Prof.

Prince, A. E., M.A. Manc., B.Litt.  
Ox. (English H.) Prof.

Harrison, W. E. C., M.A. Lond.  
(on leave) Asst. Prof.

Graham, G., M.A., Ph.D. Harv.  
Lectr.

Stavrianos, L. S., A.M. Clark  
Instr.

2 Fellows.

*Italian*, v. Romance Lang.

*Mathematics*

Matheson, J., M.A., Dean of the  
Faculty of Arts Prof.

Gummer, C. F., M.A. Ox., Ph.D.  
Chic. Prof.

Miller, N., Ph.D. Harv., M.A. Prof.  
Johnston, K. P., M.A., B.Sc.

Assoc. Prof.

Edgett, G. L., M.A. Mt. All., Ph.D.  
Ill. Asst. Prof.

Stewart, J. D., M.A. Lectr.

Watts, Rev. J. O., M.A. Camb.  
(also Physics) Lectr.

1 Instr., 1 Tutor.

*Medicine*, v. *infra*

*Metallurgy*

MacKay, G. J., B.Sc. Prof.

Carson, O. A., M.A., B.Sc., Ph.D.  
Col. Asst. Prof.

Bronson, E. H., B.Sc. Asst.

*Mineralogy*

Hawley, J. E., Ph.D. Wis., M.A.,  
F.G.S.A., F.R.S.C. Prof.

1 Demr.

*Mining Engineering*

Graham, S. N., B.Sc. Prof.

*Philosophy*

Humphrey, G., M.A. Ox. Ph.D.  
Harv. Charlton Prof.

Vlastos, G., Ph.D. Harv. (on leave)  
Assoc. Prof.

Estall, H. M., M.A. McGill Lectr.

Goudge, T. A. Temp. Lectr.  
1 Tutor.

*Physics*

Clark, A. L., B.Sc. W.P.I., Ph.D.

Clark, F.R.S.C. Dean, Fac.  
Appl. Sc. Prof.

Baker, W. C., M.A. (Expl. P.) Prof.

Gray, J. A., O.B.E., D.Sc. Manc.,  
F.R.S., F.R.S.C.

Chown Research Prof.

Robertson, J. K., M.A. Tor.,  
F.R.S.C. Prof.

Flammer, E., B.Sc. Calif., Ph.D.  
Harv. (Math. Phys.) Prof.

Asst. Profs. :

Watson, E. E., M.Sc. McG., Ph.D.  
Camb.

Sargent, B. W., M.A., Ph.D. Camb.

Cave, H. M., Ph.D. Camb., M.A.

Watts, Rev. J. O. (also Maths.)  
Lectr.

2 Demrs., 1 Tutor, 1 Asst.

*Physiology*

Melvin, G. S., M.D. Aberd. Prof.

Ettinger, G. H., B.A., M.D., C.M.  
(Lectr. in Embryol.) Prof.

2 Technicians.

*Political and Econ. Science*

Mackintosh, W. A., Ph.D. Harv.,  
M.A., F.R.S.C.

Macdonald Prof.

Curtis, C. A., B.A. Tor., Ph.D.  
Chic. (Econ.) Prof.

Knox, F. A., B.A. (Econ.) Prof.

Corry, J. A., B.C.L. Ox. (Politics).  
Asst. Prof.

McDougall, J. L., M.A. Tor. (also  
Comm.) Asst. Prof.

4 Tutors.

*Romance Lang. and Lit.*, v. also  
French

Brovedani, J. H., D. ès L. Rennes  
(Span. & Ital.) Prof.

Lanigan, T. J., B.S. Harv.  
(Spanish) Lectr.



*Semitic Langs. and Lit.*

Kent, H. A., M.A. Dal., D.D.  
 Montr. (Hebrew and Biblical  
 Lit.) Prof.  
*Spanish, v. Romance*

**Medicine**

(for subjects of the first 2 yrs.—  
 Anat., etc., v. *supra*)

*Anæsthetics*

Angrove, H. S., M.D., C.M. Lectr.  
 Campbell, W. A., M.D., C.M.  
 Lectr.

*Bacteriology*

Reed, G. B., M.A., B.Sc., Ph.D.  
 Harv., F.R.S.C. Prof.  
 Orr, J. H., M.D., C.M., F.R.C.P.C.  
 Assoc. Prof.

*Biochemistry*

Sinclair, R. G., Ph.D. Rochester,  
 B.A. Craine Prof.  
 1 Technician.

*Embryology*

Ettinger, G. H. (also Physiol.)  
 Lectr.

*Eye, Ear, Nose and Throat*

Cays, F. A., M.D., C.M., F.R.C.S.C.  
 (Ear, Nose, Throat) Prof.  
 O'Connor, C. E., M.D., C.M.  
 Assoc. Prof.  
 Folger, H. P., B.A., M.D., C.M.  
 (Eye) Asst. Prof.  
 O'Connor, F. X., M.D., C.M.  
 Clin. Asst.

*Gynæcology, v. Obstetrics and Gynæcol.**Med. Jurisprudence*

Macdonnell, P. M., M.A., M.D.,  
 C.M. (also Med.)  
 Lectr. & Historian.  
 Rigney, T. J., B.A., K.C. Lectr.

*Medicine and Clin. Med.*

Connell, W. T., M.D., F.R.C.P.C.  
 Prof.  
 Gibson, W., M.D., F.R.C.P.C.  
 (Med.) Assoc. Prof.

Hopkins, B. H., M.B. Tor.  
 (Med.) Asst. Prof.  
 Connell, W. Ford, M.D., C.M.,  
 M.R.C.P. Assoc. Prof.  
 Third, J. R., B.A., M.D., C.M.  
 Lectr.

*Clin. Assts. :*

Delahaye, J. S., M.D., C.M. (also  
 Prev. Med.)  
 Bennett, C. W., M.D., C.M.  
 Tweddell, J. T., M.D., C.M.  
 Robinson, S., M.D., C.M.  
 Doyle, A. M., M.D., C.M.

*Obstetrics and Gynæcology*

Mylks, G. W., M.D., F.A.C.S.,  
 F.R.C.S.C. Prof.  
 McLeod, P. A., B.A., M.D., C.M.,  
 M.C.O.G. Asst. Prof.  
 O'Connor, F. J., M.D., C.M.  
 (Obstet.) Asst. Prof.  
 Boyd, E. M., M.A., M.D., C.M.  
 (Obstet.) Clin. Asst.  
 Mylks, G., B.A., M.D., C.M.  
 Clin. Asst.  
 Huyck, P. H., M.D., C.M. (Obstet.)  
 Clin. Asst.  
 Bennett, C. W., M.D., C.M.  
 (Obstet.) Clin. Asst.

*Pathology*

Miller, J., B.Sc., M.D. Edin., D.Sc.  
 Birm., F.R.C.P. Edin. and  
 Can., F.R.S.C. Prof.  
 Hay, W. D., M.A., M.D., C.M.  
 (Lectr. in Clin. Microscopy)  
 Assoc. Prof.  
 1 Fellow, 1 Asst.

*Pediatrics*

MacGregor, R. R., M.D., C.M.,  
 F.R.C.P.C. Prof.

*Pharmacology and Therapeutics*

Gibson, T., M.A., M.B., C.M.  
 Edin., F.R.C.P.C.  
 Douglas Prof.  
 Boyd, E. M., M.A., M.D., C.M.  
 Asst. Prof.

*Psychiatry*

Clark, E. A., M.D., C.M. Actg. Prof.

Crawford, C. M., B.A., M.D., C.M. F.A.C.P. Lectr.	Etherington, F., C.M.G., M.D., F.R.C.S.C. Dean and Assoc. Prof.
Cleland, C. A., M.D., C.M. Clin. Asst.	Sparks, J. F., B.A., M.D., C.M., F.R.C.S.C. (S. and Appl. Anat.) Assoc. Prof.
<i>Psychology</i> Humphrey, G., M.A., Ph.D. Prof.	Keyes, S. J., M.D., C.M., F.R.C.S.C. Asst. Prof.
Crawford, C. M. (also Psychiatry) Lectr.	Berry, N. E., M.D., C.M. (Urology) Asst. Prof.
<i>Public Health and Preventive Medicine</i> Wyllie, J., M.A., B.Sc., M.D. Glas., D.P.H. Camb.	Houston, S. W., M.D., C.M., F.R.C.S. Edin. and Can. Asst. Prof.
Arthur R. Elliott Prof.	Boucher, D. W., M.D., C.M., F.R.C.S. Ed. Lectr.
Blackler, C. F., M.B., C.M., D.P.H. Asst. Prof.	1 Fellow.
Delahaye, J. S., M.D., C.M. Lectr.	<b>Extension and Extra-mural Work</b> Winter, Ross M., M.A. Director.
<i>Radiology and Physical Therapy</i> Jones, W. A., M.D. Western, F.R.C.P.C. Prof.	<b>Physical Education</b> Bews, J. Instr. (Men). Murphy, Ethelwynne, B.A. Instr. (Women).
Burr, R. C., M.D., C.M., F.R.C.S. Edin. Lectr.	
<i>Surgery</i> Austin, L. J., M.Ch. Camb., F.R.C.S. Eng. and Can. Prof.	

## AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE. Principal and Prof. of Hebrew and Old Test. Criticism and Exegesis, Rev. H. A. Kent, M.A., D.D. 3 other Profs.

## GENERAL INFORMATION

Queen's College, Kingston, was founded by Royal Charter in 1841. For early history, see *Yearbook* for 1929.

The administration is vested in a Board of Trustees, composed of Chancellor, Principal, and Rector, representatives of the Council, Theological College, the Graduates and Benefactors, and 12 members selected by the Board.

**LIBRARY** (The Douglas Library). 175,000 vols., including many scarce books and early editions, especially of Canadian historical interest. The Reading Room has over 4000 vols. on open shelves and 700 periodicals. The Lorne Pierce collection of modern Canadiana and the Shortt-Haydon collection of pictures and portraits of Canadian interest are probably unexcelled. **MUSEUMS**: Herbarium (35,000 spec.), Geol., Mineral., Ethnol. (rich N. American Stone Age collection). **LABORATORIES**, including important School of Mines buildings: Biol., Chem., Geol., Physics, Engin., Mining, Mechan., Metall., Mineral. **OBSERVATORY** with 6" telescope. **HOSPITALS**, available for clinics, 2 general, 1 for insane. Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for Geol. study.

**FACULTIES.** (1) Arts, (2) Applied Science, (3) Medicine. *Deans*; Prof. J.

Matheson (Maths.); (2) Prof. A. L. Clark (Physics); (3) Assoc. Prof. F. Etherington (Surgery).

The Senate includes representatives of the Theological College also.

**DEGREE COURSES.** Four years, B.A., B.Com., B.Sc. (in Engin.—Civ., Mech., Elec., Mining and Metall., Chem. and Metall.—Analyt. and Applied Chem., Mineral. and Geol., or Physics); 6 yrs., M.D., C.M.

Combined courses: 6 yrs., B.A. and B.Sc.

For teachers in schools and others unable to pursue the full degree courses in Arts at the Univ. extra-mural instruction is provided by correspondence. All candidates for degrees must take in residence approx. half the course required for degree. Some of these may be covered at the Summer School of 6 weeks during July and Aug., but the written examns. are the regular Sept. examns. set for all students.

**Banking** Courses leading to diplomas of Associate or Fellow of the Canadian Banking Assocn. Tuition by correspondence to members of Canadian Banks.

By agreement with the Ontario Institute of Chartered Accountants, Toronto, the tuition of their course, leading to the C.A. certifi., is given by the Univ.

**HIGHER DEGREES.** M.A. (1 yr.); M.Sc. (1 yr.); D.Sc. (2 yrs. after M.D.); Ph.D. (3 yrs.); B.D. (3 yrs. course or its equivalent); Honorary LL.D., D.D.

**DIPLOMAS.** Public Health (D.P.H.); Medical Radiology (D.M.R.). Testamur in Theology (3 yrs.).

**FEES** (Class, Examn. and Student interests) in Arts, \$148; Science, \$230; Medicine, \$220.

**SCHOLARSHIPS AND FELLOWSHIPS.** There are 131 scholarships for students of the Univ., varying in value from \$20 to \$800 p.a. The *Sir James Aikins Fellowship* in Canadian Hist., \$400, open to distinguished students for further work in this subject. *George Christian Hoffmann Fellowships* (1) for Patholog. research, \$800, (2) for further study in Surg., \$600, both to enable holder to study in some inst. or Univ. in Europe or U.S.A. approved by Senate. For 4 Arts Research Fellowships and the *Milton Hersey Fellowship* in Chem. v. App. II.

**RESIDENCE** with rooms for 117 women and refectory accommodation for 180. Board and lodging, \$8.25 to \$9.00 a week. The Students' Union provides meals for men at \$6 to \$8 a week; accommodates about 200.

**UNIVERSITY EXTENSION.** See above—Degree Courses. A course of weekly lectures is open to the public, and lectures are given by members of the staff at various centres in Ontario.

**PUBLICATIONS.** *Calendars* (by Faculties); *Queen's Quarterly*; *Queen's Univ. Journal*; *Queen's Review* (Gen. Alumni Assoc.).

## THE YEAR 1936-37

**BENEFACTIONS.** Leonard Estate, \$90,000; Mrs. W. W. Near Estate, \$50,000.

**HONORARY DEGREES.** D.D.—Rev. Gordon Alfred Sisco, Toronto, Ont.; Rev. Bert Howard, Belleville, Ont. LL.D.—Isaiah Bowman, Baltimore, Md.; James Thomson Shotwell, New York; Laurens Hickok Seelze, Canton, N.Y.; Hon. Newton Diehl Baker, Cleveland, Ohio; John Brown Scott, New York; Walter Seymour Allward, Toronto, Ont.; William Thomas MacClement, Kingston, Ont.; Sidney Earle Smith, Winnipeg, Man.

**STUDENTS.** Full-time: 1700.

**DEGREES.** B.D., 4; B.A. (Pass), 137; B.A. (Hons.), 50; M.A., 17; B.Com., 19; M.Com., 1; B.Sc. (Pass), 85; B.Sc. (Hons.), 16; M.Sc., 2; M.D., C.M., 47.

# UNIVERSITY OF ST. FRANCIS XAVIER, ANTIGONISH, NOVA SCOTIA

Founded 1866

CHANCELLOR AND *ex officio* CHAIRMAN OF THE BOARD OF GOVERNORS—  
Most Rev. J. MORRISON, D.D., Ph.D., Bishop of Antigonish.

PRESIDENT—Rev. Prof. D. J. MACDONALD, Ph.D. Cath. U. Amer.

DEAN OF STUDIES—Rev. Prof. P. J. NICHOLSON, Ph.D. J. Hopkins.

REGISTRAR—Rev. Prof. J. C. CHISHOLM, M.A.

DIRECTOR OF RELIGIOUS ACTIVITIES—Rev. Prof. M. MACEACHERN,  
D.D. Montr., Ph.D. Louvain.

BURSAR—Rev. H. J. SOMERS, Ph.D. Cath. U. Amer.

DIRECTORS OF DISCIPLINE—Rev. Prof. M. A. MACLELLAN, Ph.D. Cath.  
U. Amer. ; Rev. D. MACCORMICK, D.D. Laval.

LIBRARIAN—Rev. Prof. L. B. SEARS, M.A. Ox.

ASSISTANT LIBRARIAN—Miss MARY MACDONALD.

## TEACHING STAFF

### *Biology*

Chisholm, Rev. J. C., M.A. Prof.  
Murphy, T. B., M.D., C.M. Dal.  
Assoc. Prof.

### *Chemistry*

Horan, F., M.A. Columbia Prof.  
Buckley, B., B.Sc. Instr.  
McNamara, C., B.Sc. Instr.

### *Classics*

Sears, Rev. L. B., M.A. Ox.  
(Latin) Prof.

### *Commerce*

[Prof.  
MacCormick, Rev. D., D.D. Laval

### *Economics and Sociology*

MacDonald, Rev. D. J., M.A.,  
Ph.D. Cath. U. Amer. Prof.  
MacDonald, Rev. J. A., M.A. Tor.  
Prof.  
Garvin, W., M.A. Cath. U. Amer.  
(Econ.) Assoc. Prof.

### *Education*

MacLellan, Rev. M. A., Ph.D. Cath.  
U. Amer. Prof.

### *Engineering*

Blackburn, G. A., B.Sc., N.S.T.,  
Prof.

### *English*

Bannon, Rev. R. V., M.A. Prof.  
Wallace, D., B.A. Ox., M.A. Dal.  
Assoc. Prof.  
MacEachern, J. S., B.A. Instr.

### *French*

MacLean, C., D. de l'U. Paris  
Prof.  
Marquis, P., LL.M. Mont. Instr.

### *Geology*

MacDonald, D. F., M.Sc. Geo.  
Washington, LL.D. St. John's  
Coll., N.Y. Prof.

### *German*

Klein, O. Prof.

<i>History</i>	<i>Physical Education</i> [Instr.]
Somers, Rev. H. J., Ph.D. Cath. U. Amer. Prof.	McLaughlin, Rev. M. E., B.A.
St. Veronica, Sister, M.A. Cath. U. Amer. Assoc. Prof.	<i>Physics</i>
<i>Italian</i>	Nicholson, Rev. P. J., M.A., Ph.D. J. Hopk. Prof.
Sears, Rev. L. B., M.A. Ox. Prof.	Fogarty, W. P., B.S. McG. Instr.
<i>Mathematics</i>	Clarke, E., B.Sc. Instr.
McKenna, Rev. L. G., M.A. Prof.	<i>Extension Department</i>
Tobin, Rev. C., M.A. Assoc. Prof.	Coady, Rev. M. M., D.D. Urb., Ph.D. Acad. St. Thos. Director.
Fogarty, W. P., B.S. McG. Instr.	MacPherson, Rev. H., D.D. Urb. Assoc.
MacCormick, J., B.A. Instr.	MacDonald, A. B., B.S.A. Tor. Assoc.
<i>Philosophy</i>	
MacEachern, Rev. M., D.D. Montr., Ph.D. Louvain Prof.	

## GENERAL INFORMATION

The Univ. was authorized in 1866 to grant degrees, and was endowed with full Univ. powers in 1882. A new Charter was granted in 1909. The University is under the direction of the Catholic Church, but there are no religious tests for entrance or for degrees. The Neil McNeil bequest for endowment is valued at \$600,000. A further \$200,000 will become due on the death of beneficiaries now receiving interest.

In 1894 Mount Saint Bernard College for Women, founded in 1883, was affiliated with the University.

**SCHOLARSHIPS, ETC.** Knights of Columbus scholarships, 10 to 12 annually, \$200 each; several Rev. R. McInnis scholarships of \$300 and \$200 each: 4 French scholarships annually, \$200 each; also various other scholarships, bursaries and prizes.

**LIBRARY,** 46,700 vols. **LABORATORIES:** Biol., Chem., Geol., Phys.

**COURSES.** 4 yrs., B.A., B.Sc., B.Sc. Home Econ.; 5 yrs., B.Sc. Nursing; 2 yrs., Engineering (gives admission to leading technical Colls. of Canada and U.S.A.); graduate 1 yr. course for M.A.

**EXPENSES.** Board and dormitory, \$6 per week; private room, \$2 per week; tuition for session, \$85; laboratory, \$5 to \$10; degree, \$5 to \$10.

**PUBLICATIONS.** *Calendar* (July); *Xavierian*, weekly; *Extension Bulletin*, bi-weekly.

**THE YEAR 1936-37** No Return.

# UNIVERSITY OF SASKATCHEWAN, SASKATOON

Founded 1907

VISITOR—HON. A. P. McNAB.

CHANCELLOR—SIR F. W. G. HAULTAIN, LL.D. Tor., D.C.L.

CHAIRMAN OF GOVERNORS—HON. P. E. MACKENZIE, B.A., LL.B. Tor.

PRESIDENT—JAMES S. THOMSON, M.S. Glas., D.D. Vict.

REGISTRAR—A. R. WEIR, B.A.

## TEACHING STAFF

### *Accounting*

Neilson, J., B.Acc. Prof.

Graham, D. J. (Book-keeping) Lectr.

Thompson, J. H., B.Acc. Lectr.

### *Agriculture, v. infra*

### *Anatomy*

Jackson, J. L., M.A. Alt., M.B. Tor. Prof.

Anderson, A. L., M.B. Tor., B.A. (Diagnosis) Lectr.

Campbell, J. M., M.D. Manit. Instr.

### *Art*

Kenderdine, A. Prof.

Snelgrove, G. M.A. Col., Ph.D. Lond. Prof.

Stewart, Mrs. Hilda, R.M.S. Lectr.

### *Bacteriology and Pathology*

Lindsay, W. S., O.B.E., B.A. Dal., M.B. Edin. Prof.

Rea, G. W., M.B., Ch.B., D.P.H. Belf. Prof.

Rayner, N. Analyst.

### *Biblical Literature*

Corston, J. B., M.A. Dal., Ph.D. Edin. Lectr.

### *Biology*

Thompson, W. P., M.A. Tor., Ph.D. Harv., F.R.S.C. Prof.

Vanterpool, T. C., M.Sc. McG.

(Plant Pathol.) Prof.

Saunders, L. G., M.Sc. McG., Ph.D. Camb. Asst. Prof.

Rawson, D. S., Ph.D. Tor. Asst. Prof.

Arnason, T. J., Ph.D. Wis. Asst. Prof.

### *Chemistry*

Thorvaldson, T., B.A., Manit., Ph.D. Harv., F.R.S.C. Prof.

Manning, R. J., B.A. Tor., D.Sc. Brist. (and Biochem.) Prof.

Basterfield, S., B.Sc. Lond., Ph.D. Chic., F.R.S.C. Prof.

Larmour, R. K., Ph.D. Minn., M.Sc. Prof.

Vigfusson, V. A., Ph.D. Wis., M.A. Asst. Prof.

Spinks, J. W. T., B.Sc., Ph.D. Lond. Asst. Prof.

Fraser, J. H., B.Sc. Asst. Prof.

Van Cleave, A. B., M.Sc., Ph.D. McG. and Camb. Instr.

### *Classics*

Sullivan, W. G., M.A. Dub. Prof.

Ramsay, W., B.A. Qu., Ph.D. Chic. Prof.

Ferguson, R. M., M.A. Dub. Prof.

Leddy, F. J., B.Litt. Ox., M.A. Instr.

*Economics*

- Swanson, W. W., M.A. Qu., Ph.D. Chic. Prof.  
 Fowke, V., M.A. Asst. Prof.  
 Britnell, G. E., M.A. Asst. Prof.  
 Timlin, Mabel, M.A. Instr.

*Education*

- Quance, F. M., M.A. Alb., Ph.D. Col. Prof.  
 Laycock, S. R., B.A. Tor., M.A. Alb., Ph.D. Lond. Prof.  
 Russell, D. H., Ph.D. Col., B.A., B.Ed. Asst. Prof.

*Engineering, v. infra**English*

- Wilson, R. A., Ph.D. Qu. Prof.  
 Lothian, J. M., M.A. Glas. Prof.  
 Bayer, Jean G., M.A. Dal. Prof.  
 Matheson, M., M.A. Qu. & Chic. Prof.  
 Bentley, J. A., M.A. Dal., Ph.D. Harv. Asst. Prof.  
 Brown, Edith, B.A. Lond. " " " " " "  
 MacKenzie, Edith J., B.A. Asst. Prof.  
 King, C. A., Ph.D. Tor. Asst. Prof.  
 Hamilton, L. Lectr.

*French*

- MacDonald, J. A., B.A. Laval, M.A. Harv. Prof.  
 Cameron, Margaret, M.A. McG. and Rad., D. de l'U. Paris Prof.  
 Steinhauer, H. J., M.A., Ph.D. Tor. Lectr.

*Geology*

- Mawdsley, J. B., B.Sc. McGill, Ph.D. Princ., F.R.S.C. Prof.  
 Edmunds, F. H., M.Sc. Liv. Prof.

*German*

- Anstensen, A., M.A., Ph.D. Col. Prof.  
 Steinhauer, H. J., M.A., Ph.D. Tor. Asst. Prof.

*Hebrew*

- Munro, M. F., M.A., B.D. Qu. [Lectr.

*History*

- Morton, A. S., M.A. Edin., D.D. Hfx., F.R.S.C. Prof.  
 Simpson, G. W., M.A. Tor., B.A. Prof.  
 Murray, Jean E., M.A., Ph.D. Tor. Asst. Prof.  
 Hamilton, L. Lectr.  
*Household Science*  
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 A pass course for Testamur and General Synod course for L.Th. are provided.  
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Established by Act of the Provincial Legislature in 1907, the Univ. opened classes in Arts and Sciences in 1909. For early history and constitution, see *Yearbook* for 1929. The site includes 1340 acres devoted to Agric. Education and Research, and a campus of 300 acres with a half-mile river frontage. The land, buildings, and equipment cost about \$4,000,000. The maintenance of the Univ. is partially provided for by assignments of revenue and legislative grants. The annual budget is about \$740,000.

The University conducts the **LICENCE EXAMINATIONS** for the following professions:—Medicine, Law, Dentistry, Accounting, Archit., Nursing, Vet. Sci., Optometry, Pharmacy, Land Surveyors, Drugless Practitioners, Engineering.

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RETIREMENTS. President Walter C. Murray; Prof. A. R. Greig (Engn.); Prof. W. P. Fraser (Bot.); Principal Stapleford, Regina Coll.; Principal Haslam, Emmanuel Coll.

RESIGNATIONS. Prof. J. A. Corry (Law), on apptmt. to Queen's Univ.; Prof. R. M. Dawson (Polit. Sci.), on apptmt. to Toronto Univ.; Asst. Prof. W. A. Riddell (Chem.), on apptmt. to Dominion Service; Prof. A. M. Shaw (Dean, Fac. of Agric.), on apptmt. as Director of Marketing in the Dominion Service.

DEATH. Prof. A. C. Grubb (Chem.).

HONORARY DEGREES. *LL.D.*—Prof. William Boyd, M.D., F.R.S.C. (Pathol.), Manitoba Univ.; Prof. William P. Fraser, M.A. (Plant Pathol.), Univ. of Saskatchewan.

STUDENTS. Full-time: 1855, including 52 graduates. Part-time: 1490.

DEGREES (May Convocation only). B.A., 148; M.A., 4; LL.B., 12; B.Sc., 46; M.Sc., 16; B.S.A., 12; B.H.Sc., 19; B.E., 26; B.Acc., 14; B.Mus., 3; B.S.P., 4; B.Ed., 18; M.Ed., 1; total 323.

# UNIVERSITY OF TORONTO

Founded 1843

with which are federated

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VICTORIA UNIVERSITY, TORONTO,

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## Lectrs. :

Cole, Alfreda C., M.A. (C.).  
 Balthazard, Isabel G., M.A. (C.).

MacDonald, Marguerite D., B.A.  
 Laval, Dip. de l'U. Paris (C.).  
 Houpert, J. A., M.A. Ill. (C.).  
 Assié, G. L., L. ès L., Dip. Et. Sup.  
 Paris Lectr. (C.).  
 Ford, H. E., M.A., Ph.D. Col.  
 Prof. (V.).  
 de Beaumont, V., A.M. Col.  
 Prof. (V.).  
 Lacey, A., A.M. Col., Ph.D.  
 Assoc. Prof. (V.).  
 Lasserre, H., B. ès L., B. ès Sc.,  
 L. en Dt. Geneva  
 Assoc. Prof. (V.).  
 Trethewey, W. H., Ph.D. Chic.,  
 M.A. Asst. Prof. (V.).  
 Cook, Alta L., B.A. Lectr. (V.).  
 Hare, F. A., M.A. Lectr. (V.).  
 Hicks, R. K., B.A. Camb., A.M.  
 Harv. Prof. (T.).  
 Walter, F. H., M.A. McG., D. de  
 l'U. Paris Assoc. Prof. (T.).  
 Walter, Dorothea, M.A. Qu.  
 Lectr. (T.).  
 Bondy, Rev. L. J., M. A. Chic.,  
 Ph.D. J. Hop. Prof. (M.).  
 Murray, Rev. W. H., B.A., L. en  
 Ph. Univ. Cath. de Paris  
 Prof. (M.).  
 Denomy, Rev. A. J., B.A. W. Ont.,  
 Ph.D. Harv., M.A. Prof. (M.).  
 Agnes, Sister M., M.A.  
 Assoc. Prof. (M.).  
 Berchmans, Sister M., A.M. Chic.,  
 B.A. Assoc. Prof. (M.).  
 Bernard, Sister M., M.A.  
 Lectr. (M.).  
 Forestell, Rev. D. L., B.A.  
 Lectr. (M.).  
 Marie Thérèse, Sister M., M.A.  
 Lectr. (M.).  
 St. Peter, Sister M., M.A.  
 Lectr. (M.).  
 St. Ivan, Sister M., B.A.  
 Lectr. (M.).  
 Sharpe, Rev. G. V., B.A. Lectr. (M.).  
 1 Instr. (V.), 1 Instr. (T.), 1 Fellow  
 (T.).

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

*Genetics, v. Biology**Geography*

Taylor, Griffith, B.A. Camb., D.Sc.  
Syd. Prof.  
3 Demrs.

*Geology*

Moore, E. S., Ph.D. Chic., M.A.,  
F.R.S.C. (Econ. G.) Prof.  
MacLean, A., B.A. Prof.  
Longford, G. B., Ph.D. Corn.,  
B.A.Sc. (Mining) Prof.  
Fritz, Madeleine A., B.A. McG.,  
M.A., Ph.D. Asst. Prof.  
Russell, L. S., M.A. Alt., Ph.D.  
Princ. Asst. Prof.  
Satterly, J., Ph.D. Camb., M.A.  
Lectr.  
1 Instr., 6 Assts.

*German*

Fairley, Barker, M.A. Leeds and  
Manc., Ph.D. Jena Prof. (C.).  
Hedman, T., Ph.B. Chic.  
Assoc. Prof. (C.).  
Holt, G. E., M.A., Mus.B.  
Asst. Prof. (C.).  
Boeschenstein, H., Ph.D. Rostock  
Asst. Prof. (C.).  
Lange, V., Ph.D. Leip., M.A.  
Lectr. (C.).  
Surerus, J. A., B.A. Prof. (V.).  
Arnold, R. K., Ph.D. Prag.  
Asst. Prof. (V.).  
Shore, T. C., M.A. Qu. and Harv.  
Asst. Prof. (V.).  
Lewis, C., M.A. Ox. Prof. (T.).  
Scott, Laila C., M.A.

Assoc. Prof. (T.).  
Mueller, Victoria E. W., M.A.,  
Ph.D. Assoc. Prof. (M.).  
1 Fellow (V.).  
1 Instr. (M.).

*Histology, v. Biology**History*

## Profes.:

Martin, Chester, M.A. Ox., LL.D.  
Manit. and N. Br., F.R.S.C.

Flenley, R., M.A. Liv., B.Litt. Ox.  
Underhill, F. H., M.A. Ox., B.A.  
Brown, G. W., Ph.D. Chic., B.A.  
Glazebrook, G. P. de T., M.A. Ox.,  
B.A. Assoc. Prof.

## Asst. Profes.:

Creighton, D. G., M.A. Ox., B.A.  
McInnis, E., M.A. Ox., B.A.  
McDougall, D. J., M.A. Ox., B.A.  
Saunders, R. M., M.A. Clark, Ph.D.  
Corn. Lectr.  
Preston, R. A., M.A. Leeds, Ph.D.  
Yale Lectr.

*History, Ancient*

Cochrane, C. N., M.A. Ox.  
Prof. (C.).  
Needler, Miss M. C., Ph.D. Chic.,  
M.A. Asst. Prof. (C.).  
Sissons, C. B., B.A., LL.D. Ottawa  
Prof. (V.).  
Woodside, M. St. A., M.A. Ox.  
Asst. Prof. (V.).

*Household Science, v. also Food*

Brodie, Jessie B., A.M., Ph.D. Col.,  
B.A. Prof.  
Willard, Alice C., A.M. Knox, S.M.,  
Ph.D. Chic. Asst. Prof.  
Park, Edna W., M.A. Asst. Prof.  
Lectrs. :  
Bennett, Kathleen E., M.A. Col.,  
B.A.  
Coatsworth, Helen R., M.A.  
Mulholland, Dorothy E., M.A.  
Roberts, Jessie S., B.A., M.S.  
Manit.  
3 Assts.

*Italian and Spanish*

Buchanan, M. A., B.A., Ph.D.  
Chic., F.R.S.C. Prof.  
Shaw, J. E., A.B., Ph.D. J. Hop.  
Prof.  
Goggio, E., Cav. della Cor. d'It.,  
Ph.D. Harv., M.A. Prof.  
Patterson, G. C., M.C., B.A.  
Assoc. Prof.

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.



Dano, J., A.B. Tol., A.M., Ph.D.  
Col. Assoc. Prof.  
2 Instrs.

*Law*

Kennedy, W. P. McC., M.A. Ox.,  
Litt.D. Dub., F.R.S.C.  
(Constit. L.) Prof.

Mackenzie, N. A. M., B.A., LL.B.  
Dal., LL.M. Harv.  
(Public and Private Inter.  
L.) Prof.

Auld, F. C., B.A. McG., M.A.,  
B.C.L. Ox. (Roman L. and  
Jur.) Prof.

Finkelman, J., M.A., LL.B.  
Asst. Prof.

Hancock, J. E. M., B.A. Lectr.  
Gray, K. G., M.B., B.Sc. (Med.)  
Hon. Lectr.

Laidlaw, R. E., B.A.Sc.  
(Engin. L.) Spl. Lectr.

*Library Science*, v. *infra* Ontario  
Coll. of Education

*Mathematics*

Beatty, S., Ph.D., F.R.S.C.  
Dean Fac. Arts. and Prof.

Pounder, I. R., M.A., Ph.D. Chic.  
Prof.

Assoc. Profs. :

Webber, W. J., B.A. Camb.  
Sheppard, N. E., M.A.

Robinson, D. A. F., M.A., Ph.D.  
Chic. Asst. Prof.

Burk, J. D., B.A. Asst. Prof.

Robinson, G. de B., Ph.D. Camb.,  
B.A. Asst. Prof.

Brauer, R., Ph.D. Berlin  
Asst. Prof.

Coxeter, H. S. M., B.A., Ph.D.  
Camb. Asst. Prof.

Waddell, Mary E. G., M.A. Lectr.  
Krieger, Cypra C., M.A., Ph.D.  
Lectr.

De Lury, D. B., M.A., Ph.D.  
Lectr.

8 Fellows.

*Mathematics, Applied*

Synge, J. L., M.A., Sc.D. Dub.,  
F.R.S.C. Prof.

Stevenson, A. F. C., M.A., Ph.D.  
Camb., F.R.S.C. Assoc. Prof.

Griffith, B. A., M.A. Lectr.  
2 Fellows.

*Medicine and Surgery*, v. *infra**Metallurgy*, v. Engin.*Military Studies*

..... Director.

*Mineralogy*

Parsons, A. L., A.B. N.Y. Prof.  
Thomson, J. E., Ph.D. Harv.,  
B.A.Sc., F.R.S.C. Prof.

Peacock, M. A., M.A. Harv., Ph.D.,  
D.Sc. Glas. Assoc. Prof.

Meen, V. B., M.A., Ph.D. Lectr.  
3 Assts.

*Mining*, v. Engin.

*Music*, v. also *infra* Ontario  
Coll. of Education

MacMillan, Sir Ernest, D.Mus. Ox.,  
LL.D. Br. Col., B.A.

Dean and Lectr.

Fricker, H. A., M.A. Leeds,  
B.Mus. Durh., Mus.Doc.,  
F.R.C.O. Lectr.

Smith, L., Mus.B. Manc. Lectr.

Willan, H., Mus.Doc., F.R.C.O.  
Lectr.

*Nursing*, v. *infra**Oriental Languages* [Prof. (C.).

Taylor, W. R., D.D. Qu., Ph.D.  
Meek, T. J., B.D. McCorm., Ph.D.  
Chic., B.A. Prof. (C.).

Winnett, F. V., M.A., Ph.D.  
Asst. Prof. (C.).

McCullough, W. S., M.A.  
Lectr. (C.).

Staples, W. E., M.A., Ph.D.  
Assoc. Prof. (V.).

- Mercer, S. A. B., B.A. Harv., C.E.,  
M.A. Wisc., Ph.D. Munich,  
D.D., LL.D. Nashotah  
Prof. (T.).  
Evans, Rev. K. C., M.A., Ph.D.  
Lectr. (T.).  
3 Fellows (C.).  
Haffey, Rev. H. J., B.A.  
Lectr. (M.).  
McGahey, Rev. J. E., M.A.  
Lectr. (M.).  
McIntyre, Rev. V., B.A. W. Ont.,  
M.A.  
Lectr. (M.).  
1 Asst. (C.), 1 Fellow (T.), 9 Instrs.  
(M.).

*Philosophy, v. also Classics*

- Brett, G. S., M.A. Ox., F.R.S.C.  
Dean, Grad. School and  
Prof.  
Anderson, F. H., B.A. Dal., Ph.D.  
Prof.  
MacCallum, H. R., B.A. Qu. and  
Ox.  
Assoc. Prof.  
Macdonald, E. W., B.A. Qu.  
Assoc. Prof.  
McCurdy, W. J., B.A. Dal., M.A.,  
Ph.D. Harv.  
Asst. Prof.  
Brown, W. T., Ph.D. Harv., M.A.  
Principal and Prof. (V.).  
Lane, W. B., Ph.D. Wisc., M.A.  
(Ethics)  
Prof. (V.).  
Line, Rev. J., S.T.D., Mont., D.D.  
Pine Hill, M.A., B.D. (Ethics)  
Assoc. Prof. (V.).  
Macpherson, Jessie, B.A.  
Lectr. (V.).  
Kingston, Rev. G. F., M.A., B.D.  
King's, Ph.D. (Ethics)  
Prof. (T.).  
Carr, Rev. H., B.A., LL.D.  
Prof. (M.).  
Gilson, E., D. ès L. Paris, LL.D.  
Aberd. and St. And., Ph.D.  
Mont., D.Litt. Ox. and Harv.  
(Mediaeval P.)  
Prof. (M.).  
Maritain, J., Ag. de l'U. Paris  
Prof. (M.).  
Coughlin, Rev. H., B.A. W. Ont.,  
S.T.D. Rome, M.A. (Theo-  
dicy)  
Prof. (M.).  
Sullivan, Rev. B., M.A. Cath. U.  
Am. (Soc. Eth.)  
Assoc. Prof. (M.).  
McCann, Rev. L., B.A. W. Ont.,  
S.T.B. Rome Assoc. Prof. (M.).

*Physics*

- Burton, E. F., B.A. Camb., Ph.D.,  
F.R.S.C.  
Prof.  
Satterly, J., M.A. Camb., D.Sc.  
Lond., F.R.S.C.  
Prof.  
Gilchrist, L., M.A., Ph.D. Chic.,  
F.R.S.C.  
Prof.  
McTaggart, H. A., M.A. Tor. and  
Camb., Ph.D., F.R.S.C.  
Assoc. Prof.  
Ainslie, D. S., M.A., Ph.D.  
Assoc. Prof.  
Ireton, H. J. C., M.A., Ph.D.  
Assoc. Prof.  
Asst. Profs. :  
Barnes, C., M.Sc. Leeds, Ph.D.  
Smith, H. G., B.A., Ph.D.  
Pitt, A., B.A. Houghton.  
Wilhelm, J. O., B.Sc. Sask., M.A.  
Crawford, M. F., B.A. W. Ont.,  
M.A., Ph.D.

*Lectrs. :*

- McLay, A. B., B.A. McM., M.A.,  
Ph.D.  
Quinlan, Florence M., M.A., Ph.D.  
Allin, Elizabeth J., M.A., Ph.D.  
24 Demrs., etc.

*Physiology*

- Best, C. H., M.A., M.D., D.Sc.  
Lond., F.R.C.P. Can., F.R.S.C.  
Prof.  
Taylor, N. B., M.D., F.R.C.S.  
Edin.  
Prof.  
Waters, E. T., B.Sc., Ph.D. Wales  
Asst. Prof.  
Solandt, D. Y., Ph.D. Lond.,  
M.A., M.D.  
Asst. Prof.  
Fidlar, E., B.A., M.D.  
Lectr.

(V.), (T.), (M.) = Victoria, Trinity, St. Michael's College.

Hershey, J. M., B.Sc.(Med.), M.A.,  
Ph.D., M.D., D.P.H. Lectr.  
1 Demr., 4 Fellows.

*Political Science*, v. also Law

Innis, H. A., M.A. McM., Ph.D.  
Chic., F.R.S.C. Prof.  
Jackman, W., M.A. (Transp.) Prof.  
Kemp, H. R., M.A. Assoc. Prof.  
Brady, A., B.A. Ox., M.A., Ph.D.  
Assoc. Prof.  
Bladen, V. W., M.A. Ox.  
Assoc. Prof.  
Dawson, R. M., M.A. Dal., D.Sc.  
Lond. Assoc. Prof.  
Morgan, L. T., B.A. Br. Col., M.A.,  
Ph.D. Cal. Asst. Prof.  
Parkinson, J. F., B.Com. Lond.  
Asst. Prof.  
Biss, Irene M., M.A. Bryn Mawr  
and Camb. Asst. Prof.  
MacGregor, D. C., B.A.  
Asst. Prof.  
Plumptre, A. F. W., M.A. Camb.,  
B.A. Asst. Prof.

Lectrs. :

Coe, V. F., Ph.B. Chic.  
Macpherson, C. B., M.Sc. (Econ.)  
Lond., B.A.  
Westcott, F. J., B.A. Brand.  
Spl. Lectr.  
Waines, W. J., M.A. Spl. Lectr.  
Glazebrook, A. J. (Banking and  
Finance) Spl. Lectr.  
2 Instrs., etc.

*Psychology*

Bott, E. A., B.A. Prof.  
Blatz, W. E., Ph.D. Chic., M.A.,  
M.B. Prof.  
Chant, S. N. F., M.A. Assoc. Prof.  
Line, W., B.Sc. Mt. A., M.A., B.Ed.  
Alb., Ph.D. Lond.  
Assoc. Prof.  
Ketchum, J. D., M.A. Asst. Prof.  
Cosgrave, G. P., M.A. Manit.,  
Ph.D. Asst. Prof.

Bernhardt, K. S., Ph.D. Chic.,  
M.A. Asst. Prof.  
Myers, C. R., M.A. Asst. Prof.  
Rogers, K. H., M.A., Ph.D.  
Spl. Lectr.  
Phelan, G., M.A. St. F. X.,  
Ph.D. Louvain Prof. (M.).  
O'Sullivan, P. M., M.A., M.B.,  
Ph.D. Assoc. Prof. (M.).  
Dore, Rev. J. W., M.A.  
Asst. Prof. (M.).  
1 Instr., 13 Assts., etc.

*Public Speaking*, v. *infra*, Ap-  
plied Sci. and Engin.

*Religious Knowledge*, v. *infra*,  
Federated Colls.

*Social Science*, v. also Pol. Sci.

Grauer, A. E., B.A. Br. Col. and  
Ox., Ph.D. Cal.  
Prof. and Dir.  
McGregor, Agnes Asst. Dir.  
Finlayson, Barbara M., B.A. Lectr.  
17 Lectrs. (part-time).

*Spanish*, v. Italian

*Zoology*, v. Biology

Applied Science and Engineering

*Architecture*

Madill, H. H., B.A.Sc. Prof.  
Arthur, E. R., B.Arch. Liv., M.A.  
Prof.  
Burden, H. J., D.S.O., D.F.C.,  
B.A.Sc., M.F.A. Princ.  
Asst. Prof.  
Carswell, W. E., B.Arch. Lectr.  
Carver, H. M. S. Spl. Lectr.  
Dunington-Grubb, H. B.  
Spl. Lectr.  
Mathers, A. S., B.A.Sc. Spl. Lectr.  
Wilson, W. S., B.A.Sc. Spl. Lectr.  
4 Instrs.

*Chemical E. and Appl. Chemistry*

Bain, J. W., B.A.Sc., F.R.S.C.  
Prof.

Boswell, M. C., M.A. Harv., B.A.Sc.,  
Ph.D., F.R.S.C.

(Org. Chem.) Prof.

Ardagh, E. G. R., B.A.Sc.,  
F.R.S.C. Prof.

Smith, E. A., M.A. McM.  
Asst. Prof.

McLaughlin, R. R., M.A.Sc., M.A.,  
Ph.D. Asst. Prof.

Crossley, T. L. Spl. Lectr.

De Laporte, A. V., B.A.Sc., C.E.

Spl. Lectr.

1 Instr., 7 Demrs.

*Civil E. and Applied Mechanics*

Young, C. R., B.A.Sc., C.E.

(Civil Eng.) Prof.

Loudon, T. R., B.A.Sc.  
(App. Mech.) Prof.

Morrison, C. F., B.E. Sask., M.Sc.  
McG. Asst. Prof.

Sagar, W. L., B.A.Sc. Asst. Prof.

Lazier, M. J. C., B.A.Sc. Lectr.

Berry, A. E., M.A.Sc., C.E., Ph.D.  
Spl. Lectr.

1 Instr., 2 Demrs.

*Electrical E.*

Price, H. W., B.A.Sc. Prof.

Zimmer, A. R., B.A.Sc.  
Assoc. Prof.

Smith, V. G., B.A.Sc. Asst. Prof.

Bayly, B. de F., B.A.Sc.

Asst. Prof.

Brown, R. J., B.A.Sc. Lectr.

1 Instr., 7 Demrs.

*Engineering Drawing*

Cockburn, J. R., M.C., V.D.,  
B.A.Sc.

(Descr. Geometry) Prof.

Smither, W. J., B.A.Sc.

(Struct. Eng.) Assoc. Prof.

Wright, W. J. T., M.B.E., B.A.Sc.

Assoc. Prof.

Dunbar, W. B., B.A.Sc.

Asst. Prof.

Wardell, A., B.A.Sc. Asst. Prof.

Jermyn, P. V., B.A.Sc. Lectr.

Spence, J. J. Lectr.

2 Instrs., 3 Demrs.

*Mechanical E.*

Angus, R. W., B.A.Sc., M.E. Prof.

Allcut, E. A., M.Sc. Birm., M.E.

Prof.

Taylor, R., B.A.Sc. Assoc. Prof.

McIntosh, W. G., B.A.Sc.

Asst. Prof.

Graham, T. C., B.A.Sc. Lectr.

Hally, G. H., B.A.Sc. Lectr.

Lord, G. R., S.M. Mass. Inst. Tech.,

B.A.Sc. Lectr.

Wiren, R. C., B.A.Sc. Lectr.

8 Demrs.

*Metallurgical E.*

Guess, G. A., M.A. Qu. Prof.

Newcombe, J. A., B.Sc. Lond.

Assoc. Prof.

Montgomery, R. J., B.Sc. Cer. E.

Ohio (Ceramics) Assoc. Prof.

Toomer, J. E., B.S. N. Carolina.

Asst. Prof.

*Mining E.*

Haultain, H. E. T., C.E. Prof.

King, J. T., B.A.Sc. Assoc. Prof.

Dyer, F. C., B.A.Sc. Assoc. Prof.

Wolfe, S. E., M.A.Sc. Lectr.

1 Instr., 2 Demrs.

*Physics, Applied*

Jackson, K. B., B.A.Sc.

Asst. Prof.

2 Instrs., 3 Demrs.

*Public Speaking*

Kirkpatrick, F. H., Ph.B.

Spl. Lectr.

*Surveying*

Treadgold, W. M., B.A. Prof.

Crerar, S. R., B.A.Sc. Assoc. Prof.

Banting, E. W., B.A.Sc. Assoc. Prof.

Melson, J. W., B.A.Sc.

Assoc. Prof.

*Medicine*

(for subjects of the first 2 yrs.—

Anat., etc., v. *supra*)

*Bacteriology*, v. Pathology

*Gynaecology*, v. Obstetrics

*History of Medicine* [Prof.  
Elliott, J. H., M.B., F.R.C.P. Can.

*Hygiene and Preventive Med.*, v.  
also Schl. of Hygiene, *infra*

FitzGerald, J. G., M.D., LL.D. Qu.,  
F.R.C.P. Can., F.R.S.C. Prof.

Fraser, D. T., M.C., B.A., M.B.,  
D.P.H. F.R.S.C. Prof.

Defries, R. D., M.D., D.P.H. Prof.  
Moloney, P. J., M.A., Ph.D.,  
F.R.S.C. Assoc. Prof.

Brown, M. H., B.Sc. (Med.), M.D.  
Asst. Prof.

Fraser, Frieda, B.A., M.B.  
Asst. Prof.

Sneath, P. A. T., M.D., D.P.H.  
Lectr.

1 Fellow, 6 Assts.

#### *Life Insurance*

Falconer, J. G., M.D., F.R.C.P.  
Can. Spl. Lectr.

#### *Medical Ethics*

Young, G. S., B.A., M.B., F.R.C.P.  
Can. Lectr.

#### *Medical Jurisprudence*

Gray, K. G., M.B., B.Sc. (Med.)  
Lectr.

Robinson, W. L., M.B., B.A.  
McM., F.R.C.P. Can. Lectr.

#### *Medical Research*

Banting, Sir Frederick G., K.B.E.,  
M.C., M.D., LL.D. Qu. and  
W. Ont., Sc.D. Yale, D.Sc.,  
F.R.C.S., F.R.S. Eng. and  
Can. Prof.

Irwin, D. A., M.B., B.Sc. (Med.)  
Assoc. Prof.

Franks, W. R., M.A., M.B.  
Assoc. Prof.

Hall, G. E., M.S.A., M.D., Ph.D.  
Assoc. Prof.

Asst. Profs. :

Lucas, C. C., M.A.Sc. Br. Col.,  
Ph.D.

Mendel, B., M.D. Berlin.

2 Assocs., 12 Assts., 8 Fellows.

*Medicine and Clinical Medicine*  
Graham, D. A. L., M.B., F.R.C.P.  
Can. and Lond. Prof.

Asst. Profs. :

Farquharson, R. F., M.B.,  
F.R.C.P. Can.

Howland, G. W., B.A., M.B.,  
F.R.C.P. Can. and Lond.

Oille, J. A., M.D., F.R.C.P. Can.

Loudon, J. D., B.A., M.B.,  
F.R.C.P. Can.

McPhedran, W. F., B.A., M.B.,  
F.R.C.P. Can.

Trow, E. J., M.B., F.R.C.P. Can.  
(Dermat.).

Detweiler, H. K., M.D., F.R.C.P.  
Can.

Assocs. :

Armour, R. G., B.A., M.B.,  
F.R.C.P. Can.

Campbell, W. R., M.A., M.D.,  
F.R.C.P. Can., F.R.S.C.

Elliott, J. H., M.B., F.R.C.P. Can.

Fletcher, A. A., M.B., F.R.C.P.  
Can.

Hannah, B., M.B., F.R.C.P. Can.  
Hepburn, J., M.B., F.R.C.P. Can.

McPhedran, A. G., B.A., M.B.,  
F.R.C.P. Can.

Owen, T., M.B., M.R.C.P. Lond.,  
F.R.C.P. Can.

Parsons, H. C., M.A., M.D., C.M.,  
F.R.C.P. Lond.

Rolph, F. W., M.A., M.D.,  
F.R.C.P. Can.

30 Demrs., 3 Fellows.

#### *Obstetrics and Gynaecology*

Scott, W. A., B.A. McM., M.B.,  
F.R.C.S. Can. Prof.

Asst. Profs. :

Frawley, N. D., M.B., F.R.C.S.  
Can.

Van Wyck, H. B., B.A., M.B.,  
F.R.C.S. Can.

Wesley, R. W., M.B., F.R.C.S. Can.

Kinnear, J. A., M.D., C.M. Assoc.  
11 Demrs., 3 Fellows.

*Ophthalmology*

Lowry, W. H., M.D., C.M.,  
F.R.C.S. Can. Prof.

Assocs. :

Aylesworth, F. A., M.D., C.M. Qu.  
Hill, C. E., M.D., F.R.C.S. Can.

Lyon, M., M.D., C.M.

MacDonald, A. E., M.D., F.R.C.S.  
Can.

Wright, W. W., M.B.

3 Demrs., 1 Asst.

*Oto-Laryngology*

Goldsmith, P. G., C.B.E., M.D.,  
C.M., F.R.C.S. Can. Prof.

Biggs, G. M., M.B. Assoc. Prof.

Campbell, A. A., M.B. Assoc.

11 Demrs.

*Pathology and Bacteriology*

Boyd, W., M.D. Edin., M.R.C.P.  
Edin., F.R.C.P. Lond. Prof.

Holman, W. L., B.A., M.D., C.M.  
McG. (Bact.) Prof.

Linell, E. A., Ch.B., M.D. Manc.  
(Neuropath.) Prof.

Robinson, W. L., B.A. McM.,  
M.B., F.R.C.P. Can.

(Path.) Prof.

Shanks, G., B.A., M.D., C.M.  
McG. Asst. Prof.

Duff, G. L., M.A., M.D., Ph.D.  
(Path.) Asst. Prof.

Detweiler, H. K., M.D., F.R.C.P.  
Can. (Serology) Assoc. Dir.

Lectrs. :

Magner, W., M.B., B.Ch., B.A.O.  
R:U.I., M.D., D.P.H. N.U.I.

(Path.).

Erb, I. H., M.B. (Path.).

Price, Ruth M., M.B. (Bact.).

Greay, P. H., M.D., B.Sc. (Med.)  
(Bact.).

5 Demrs., 1 Asst., 5 Fellows.

*Pathological Chemistry*

Hunter, A., M.A., B.Sc., M.B.  
Edin., F.R.C.P. and Sc. Glas.

Prof.

Nicholson, T. F., M.B., B.Sc.  
(Med.), Ph.D. Assoc. Prof.

Urquhart, R. W. I., M.A., M.D.

Lectr.

2 Demrs., 2 Fellows.

*Pediatrics*

Brown, A., M.D., F.R.C.P. Can.

Prof.

Canfield, A. W., M.D., C.M. Assoc.

Morgan, E. A., M.B. Assoc.

Pirie, G. R., M.B., F.R.C.P. Lond.

Assoc.

Tisdall, F. F., M.D., F.R.C.P. Can.

Assoc.

9 Demrs.

*Pharmacy and Pharmacology*

Henderson, V. E., M.A., M.B.,  
F.R.C.P. Can., F.R.S.C. Prof.

Lucas, G. H. W., Ph.D.

Assoc. Prof.

2 Assts., 1 Fellow.

*Psychiatry*

Farrar, C. B., A.B. Harv., M.D.

J. Hop., F.R.C.P. Can. Prof.

Lewis, E. P., B.A. McM., M.B.

Asst. Prof.

6 Demrs., 2 Fellows.

*Radiology*

Richards, G. E., M.B., F.R.C.P.  
Can. Prof.

Singleton, A. C., M.B. Assoc.

2 Demrs.

*Surgery and Clinical Surgery*

Gallie, W. E., M.D., F.R.C.S. Eng.  
et Can. Dean and Prof.

Asst. Profs. :

Graham, R. R., M.B., F.R.C.S.  
Can.

Pearse, R., F.R.C.S. Eng. and  
Can.

Robertson, D. E., M.D.

Ryerson, E. S., M.D., C.M.  
Asst. Dean.

Shenstone, N. S., M.D. Col., B.A.

Wilson, G. E., M.B., F.R.C.S. Eng.

Duff, T. A. J., M.B., F.R.C.S.  
Edin.

Scott, W. A., C.M.G., B.A., M.D.,  
F.R.C.S. Eng.

McKenzie, K. G., M.B., F.R.C.S.  
Can.

Associates :

Gaby, R. E., M.D. Corn., B.A.,  
F.R.C.S. Can.

Harris, R. I., M.C., M.B., F.R.C.S.  
Can.

Le Mesurier, A. B., M.B.

Robinson, T. A., M.D., C.M. McG.

Ross, J. W., M.D., M.S. Minn.

Wookey, H. W., M.B., F.R.C.S.

24 Demrs., 19 Fellows.

*Therapeutics*

Farquharson, R. F., M.B.,  
F.R.C.P. Can. Asst. Prof.

Gardiner, W. J., M.B. Assoc.

Shields, H. J., B.A., M.B.  
(Anæsth.) Assoc.

5 Demrs., 8 Assts., 1 Fellow.

**Dentistry**

*Clinical Dentistry*

Mason, A. D. A., D.D.S.

Dean and Prof.

Ellis, R. G., B.D.S. Adel., D.D.S.,  
B.Sc.(Dent.) Assoc. Prof.

Switzer, W. G., D.D.S. Assoc. Prof.

Hoskin, H. A., D.D.S. Assoc. Prof.

12 Assocs.

*Crown and Bridge Prosthesis*

Ante, I. H., D.D.S. Prof.

*Dental Anatomy*

Crouch, S. S., D.D.S. Prof.

*Dental Bibliography*

..... Librarian.

*Dental Pathology and Bacteriology*

Cameron, G. C., M.D., F.R.C.P.

Can. Prof.

1 Assoc.

*Dental Praxis*

Conboy, F. J., D.D.S. Prof.

McLean, R. G., D.D.S. Prof.

Rous, C. C., B.A.Sc. Lectr.

*Dental Surgery and Anæsthesia*

Paul, E. W., D.D.S. Prof.

1 Assoc.

*Dental Technol. and Metallurgy*

Cowling, T., M.A. McM., D.D.S.,

B.Pæd. Prof.

Rous, C. C., B.A.Sc. Lectr.

1 Instr.

*Operative Dentistry*

Mason, A. D. A., D.D.S.

Dean and Prof.

Ellis, R. G., B.D.S. Adel., D.D.S.,

B.Sc. (Dent.) Assoc. Prof.

1 Assoc.

*Oral Surgery*

Risdon, F. E., M.B., D.D.S.,

F.R.C.S. Can. Assoc. Prof.

*Orthodontia*

Corrigan, C. A., D.S.O., D.D.S.

Prof.

..... Assoc. Prof.

*Peridontology*

Box, H. K., D.D.S., Ph.D.

Research Prof.

1 Assoc.

*Preventive Dentistry*

..... Prof.

1 Assoc., 1 Demr., 1 Asst.

*Prosthodontia*

Lott, F. M., D.D.S., M.Sc. (Dent.)

Prof.

Godfrey, R. J., D.D.S.

Assoc. Prof.

*Radiography and Photography*

1 Assoc.

**School of Hygiene**

v. also Medicine

FitzGerald, Prof. J. G. (Hyg. &  
Prev. Med.) Director

Defries, Prof. R. D. (Hyg. &  
Epidemiol.) Assoc. Director

Fraser, Prof. D. T. (Hyg. & Prev. Med.)

Assoc. Director, Connaught Labs.

Best, Prof. C. H. (Physiol. Hyg.) (v. also Physiol.)

Actg. Head of Dept.

Moloney, P. J. (Chem. in relation to Hyg.)

Assoc. Prof., Asst. Director, Connaught Labs.

McKinnon, N. E., M.B. (Hyg. & Epidemiol.) Assoc. Prof.

MacLean, D. L., M.B., B.Sc. (Med.), D.P.H. (Physiol. Hyg.) Asst. Prof.

McHenry, E. W., M.A., Ph.D. (Physiol. Hyg.) Asst. Prof.

Fraser, Frieda H., B.A., M.B. (Hyg. & Prev. Med.)

Asst. Prof.

Craigie, J., M.B., Ch.B., Ph.D., D.P.H. St. And. (Epidemiol.)

Asst. Prof.

Cunningham, J. G., B.A., M.B., D.P.H. (Indust. Hyg.) Lectr.

Ross, Mary A., B.A. Dal., M.A., Ph.D. (Vital Statistics) Lectr.

#### School of Nursing

Russell, Edith K., B.A. King's, B.Pæd. Director.

Emory, Florence H. M. (Lectr. Pub. Health N.)

Asst. Director.

Chute, Winnie L., B.A. Acadia Lectr.

Fidler, Nettie D. Lectr.

Millman, Mary B., B.A. (Pub. Health N.) Lectr.

Percy, Dorothy M. Lectr.

Stuart, Eugenie M. Lectr.

#### Ontario College of Education

Althouse, J. G., M.A., D.Pæd. Dean.

#### *Educational Research*

Sandiford, P., M.Sc. Manc., Ph.D. Col. (Ed. Psych.)

Dir. and Prof.

Long, J. A., B.A. McM., Ph.D. Col. (Ed. Psych.) Asst. Prof.

Cameron, M. A., M.A. Brit. Col., Ph.D. Asst. Prof.

#### *Educational Methods*

Carlisle, J. O., M.A. (Classics) Prof. and Supervisor of Practice Teaching.

Coombs, F. E., M.A. (Elem. Edn.) Prof.

Cornish, G. A., B.A. (Science) Prof.

Jones, G. M., B.A. (Eng. and Hist.) Prof.

Lougheed, W. J., M.A., B.Pæd. (Maths.) Prof.

Bennett, W. G., B.A., B.Com. Qu., A.M. Chic., D.Pæd. (Com. Subjects) Assoc. Prof.

Ockley, Laura L., B.A. (H.Sc.) Assoc. Prof. and Supervisor of Women Students.

Diltz, B. C., M.A. Qu. (Eng. and Hist.) Assoc. Prof.

St. John, Helen B., B.A. (Mod. Langs.) Asst. Prof.

Bramfitt, G. N., B.A., B.Pæd. (Music) Lectr.

Halbus, F. W., B.A. McM. (Phys. Edn.) Lectr.

Marsh, Annette, A.R.C.A. Lond. (Art) Lectr.

Robertson, Alicia E. (H.Sc.) Lectr.

McLachlan, A. T. (Shop Work) Lectr.

Taylor, G., B.E. Syd., B.A. Camb., D.Sc. Syd. (Geog.) Spl. Lectr.

1 Instr.

#### *Library School*

Barnstead, Winifred G., B.A. Dal. Dir.

Bassam, Bertha, B.A. Qu. Asst. Prof.

9 Instrs.



## COLLEGES OF THE UNIVERSITY

UNIVERSITY COLLEGE. Principal—M. W. Wallace, B.A., Ph.D., LL.D.; Registrar—W. J. McAndrew, M.A.

VICTORIA COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

TRINITY COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

ST. MICHAEL'S COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

## FEDERATED UNIVERSITIES

UNIVERSITY OF TRINITY COLLEGE, *see* p. 549.

VICTORIA UNIVERSITY, *see* p. 550.

## FEDERATED COLLEGES

ST. MICHAEL'S COLLEGE. Superior—Rev. E. J. McCorkell, M.A.; Registrar—Rev. B. Sullivan, M.A. Other Teachers: the Profs., etc., marked (M.) in above list, also Rev. V. Burke, B.A., Rev. B. N. Forner, C.S.B., B.A., and Rev. G. V. Sharpe, B.A.

KNOX COLLEGE, WYCLIFFE COLLEGE, and EMMANUEL COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*): (1) Knox—Rev. W. W. Bryden, M.A., D.D.; P. Guthrie, B.A. (2) Wycliffe—Rev. F. D. Coggan, B.A.; Rev. B. W. Horan, M.A., B.D.; Rev. T. W. Isherwood, M.A.; Rev. W. E. Taylor, M.A., Ph.D. (3) Emmanuel—Rev. K. H. Cousland, M.C., M.A., B.D.; Rev. R. Davidson, M.A., Ph.D., D.D. (Principal); Rev. J. Dow, M.A., D.D.; Rev. A. J. Johnston, B.A., D.D.; Rev. F. W. Langford, B.A., M.R.E., D.D.; Rev. J. Macleod, M.A., D.D.; Rev. J. H. Michael, M.A., D.D.

## AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE, GUELPH. Estab'd. 1874. President—G. I. Christie, B.S.A., D.Sc.

The 3 main divisions are: Agriculture, Home Economics and School of Bakery. Courses in Agric.: Associate Diploma, 2 yrs.; B.S.A. degree, 4 yrs.; Summer School for Teachers. Research and investigation form an important part of the work. Courses in Home Econ. at Macdonald Institute: Diploma, 2 yrs.; Associate Diploma, 2 yrs.; also short courses. Course in Baking at Trent Institute, 6 months.

FEES. Tuition—Students resident in Ontario: 1st, 2nd and Intermed. yr., \$20 p.a., 3rd and 4th yr., \$50 p.a. Students from other Provinces, including Newfoundland, and from other parts of the British Empire, \$50 p.a. All others, \$100 p.a. Laboratory, \$1.50-\$5 p.a. Contingency fees, \$5-\$10 p.a.

Rooms for over 500 students, men and women, on College campus. Board and room, \$5.50-\$6 per wk. Fellowships available for graduate study.

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M.S., Asst. Prof. ; W. G. Evans, B.S.A., M.S., Lectr. ; C. E. Mighton, B.S.A., Research Asst. *Chem.* : Prof. G. N. Ruhnke, M.S.A. ; H. L. Fulmer, B.S.A., M.A., H. G. Bell, B.S.A., Assoc. Profs. ; Murray McNabb, M.A., Ph.D., Asst. Prof. ; L. R. Bryant, B.A., L. A. Birk, B.S.A., Lectrs. *Dairy Husbandry* : Prof. W. H. Sproule, B.S.A. ; H. A. Smallfield, B.S.A., M.S., Asst. Prof. ; F. W. Hamilton, B.S.A., O. R. Irvine, B.S.A., Demrs. *English* : Prof. O. J. Stevenson, M.A., D.Pad., F.R.S.C. ; E. C. McLean, M.A., Assoc. Prof. ; V. C. Lowell, B.S.A., W. F. C. Ade, B.A., Lectrs. *Entomol.* : Profs. L. Caesar, B.A., B.S.A., A. W. Baker, B.S.A. ; R. H. Ozburn, B.S.A., M.S., R. W. Thompson, B.S.A., H. W. Goble, B.S.A., M.S., G. G. Dustan, B.S.A., M.S., Lectrs. *Field Husbandry* : Prof. G. P. McRostie, M.S.A., Ph.D. ; O. McConkey, B.S.A., M.S., Ph.D., Assoc. Prof. ; A. W. Mason, B.S.A., R. Keegan, B.S.A., J. Laughland, B.S.A., Lectrs. *Horticulture* : Prof. E. F. Palmer, B.S.A. ; A. H. Tomlinson, B.S.A., Assoc. Prof. ; T. H. Jones, B.S.A., A. H. Richardson, M.A., M.F., H. W. Whiteside, B.S.A., J. H. L. Truscott, M.Sc., Ph.D., G. H. Dickson, B.S.A., E. A. H. Banks, B.S.A., M.S., Lectrs. *Poultry* : Profs. W. R. Graham, B.S.A., F. N. Marcellus, B.S.A., B.V.Sc., V.S. ; E. S. Snyder, B.S.A., M.S., Asst. Prof. Extension Department. Director, J. Buchanan, B.S.A. ; W. D. Tolton, B.S.A., Asst.

Division of Home Economics—Macdonald Institute. *Directress*, Olive R. Cruikshank, B.A. 12 other staff.

School of Baking—Trent Institute. *Director*—.....

ONTARIO COLLEGE OF PHARMACY, TORONTO. (For Phm.B. degree.) Dean—C. F. Heebner, Ph.G., Phm.B. Registrar-Treasurer—M. R. MacFarlane. Faculty—5 Teachers.

ONTARIO VETERINARY COLLEGE, GUELPH. (For B.V.Sc. degree.) Principal—C. D. McGilvray, M.D.V., D.V.Sc. Faculty—12 Teachers.

ALBERT COLLEGE, Belleville ; ALMA COLLEGE, St. Thomas ; ONTARIO LADIES' COLLEGE, Whitby ; ST. HILDA'S COLLEGE, Toronto (the Women's RESIDENCE for Trin. Coll.).

ONTARIO COLLEGE OF ART.—Principal—F. S. Haines, R.C.A., O.S.A.

ROYAL COLLEGE OF DENTAL SURGEONS OF ONTARIO.

## GENERAL INFORMATION

An appropriation of 500,000 acres of land for the support of 4 grammar schools and a Univ. in Upper Canada was made in 1798, and a Royal Charter was granted in 1827 for a "King's College" with the privileges of a Univ., but it was not until 1843 that the College was inaugurated. For early history, see *Yearbook*, 1929.

LIBRARY, 339,261 vols. and 131,909 pamphlets. 3670 periodicals and serials received. The (Science) Library of the Roy. Can. Inst. is housed in the same building. MUSEUMS : The Royal Ontario Museums—Archæology, Geology, Mineralogy, Palæontology, and Zoology ; departmental museums ; Trinity has a Nat. Hist. and Archæol. Museum of its own ; the Agric. and Vet. Colleges, Knox, and the Faculty of Dentistry have each one.

LABORATORIES : in all depts. of Applied Science and Engineering as well as Anat., Bio-Chem., Biol., Bot., Chem., Geol., Household Sc., Hygiene, Mineralogy, Path., Physics, Psychol., Physiol. ; described in *Bulletin* for Graduate Students. BANTING INST. and CONNAUGHT LABORATORIES FOR PREVENTIVE MED., v. App. III. B. 1. BOTANICAL GARDEN. OBSERVATORY. DAVID DUNLAP OBSERVATORY, Richmond Hill, contains a 74-in.

reflecting telescope which may be used either as a Cassegrain or a Newtonian, the largest in the British Empire and second largest in the world. HOSPITALS available for Clinics : General, 1165 beds ; Children's, 420 ; St. Michael's, 634 ; Western, 508 ; Psychiatric, 60 ; Isolation, 425.

FACULTIES. Arts, Medicine, Applied Science and Engineering (Depts.—Archit., Civil E., Mining E., Mech. E., Eng. Physics, Chem. E. and Applied Chem., Elec. E., Metall. E., Mining Geol.), Household Sc., Education, Forestry, Music, School of Graduate Studies, Dentistry, School of Nursing. DEPARTMENTS.—Social Science, University Extension.

SECRETARIES OF FACULTIES : (Arts) A. B. Fennell, M.C., M.A. ; (Med.) E. S. Ryerson, M.D., C.M. ; (Applied Sc. and Engin.) W. S. Wilson, B.A.Sc. ; (Household Sc.) Clara C. Benson, Ph.D. ; (Educ.) Lyda Swinarton ; (Forestry) R. C. Hosie, B.Sc.F., M.A. ; (Music) Annie W. Patterson, B.A. ; (School of Graduate Studies) Nora Mackenzie ; (Dentistry) C. C. Rous, B.A.Sc.

UNIVERSITY MATRICULATION BOARD. A Board created by the Univs. of Toronto, Queen's, McMaster, W. Ont., and Ottawa conducts and controls their annual Matricn. exams. The Dept. of Educn. of Ontario provides the machinery for holding these exams., and the Registrar of the Dept. is Secy. of the Board. A report signed by all members of the staff of the school concerned as to the standing of their candidates is considered in determining the results of the examn.

The subjects of Pass and Honour Matricn. are (1) Latin, (2) Engl., (3) Hist., (4) Maths., (5) Greek, (6) French, (7) German, (8) Spanish or Italian, (9) Physics and Chem., or (10) Agric., (11) Zool. and Bot. (Hon. Matric. only), (12) Music. For admission to Arts it is necessary to pass in (1) to (4) and any two of (5) to (10) with honour standing in at least 5 specified subjects, (2) and either (1) or (4) being compulsory. To obtain this honour standing a student must spend at least one yr. at school after completing Pass Matricn. In certain cases foreign students may substitute their native lang. for Greek or French or German. Music is accepted as an option for Ancient Hist. (the subject of one of the two Hist. papers, the other being Canadian Hist.).

For admission to Med. the requirements are (1) to (4), (9) or (10), and any one of (5) to (8), with honour standing in (2), (4), (6) or (7), and (9) or (11) ; to Applied Sc.—(2), (3), (4), and any three of (1) and (5) to (10), with honour standing in (2), (4), (9) or (10), and one of (1), (5) to (8) ; in Household Science—(2), (3), (4), three of (1), and (5) to (10), with honour standing in at least 5 specified subjects ; in Forestry—(2), (3), (4), and any three of (1) and (5) to (10), with honour standing in (2), (4), one of (6) or (7), and (9) or (11) ; in Music—(2), (3), (4), and three of (1) and (5) to (9) ; in Dentistry—(1), (2), (3), (4), (9) or (10), and one of (5) to (8), with honour standing in (2), (4), and one of (6) or (7), and (9) or (11).

Minimum age for admission to the Faculty of Arts, 16 ; Med., 17 ; Appl. Sc., 17 ; House. Sc., 16 ; Educn., 19 ; Forestry, 17 ; Dentistry, 16.

DEGREE COURSES. 2 yrs.—Phm.B. ; 3 yrs.—Pass B.A., Mus.B. ; 4 yrs.—Honour B.A., B.Com., B.A.Sc., B.Sc. (Med.), B.Sc. (Dent.), B.H.Sc., B.Sc.F., B.S.A. and B.V.Sc. (at Guelph) ; 5 yrs.—B.Arch., D.D.S. ; 6 yrs.—M.D. Combined courses : B.A. and M.D.—8 yrs.

*Students from the British Isles* will be admitted to Medicine or Applied Sc. on submitting certificates of registration with the General Medical Council of Great Britain or the Institution of Civil Engineers.

The B.Sc. (Med.) may be obtained by Med. students who, after the 4th or subsequent year of Med. study, having maintained therein a prescribed standard

of proficiency, spend a year in an approved course of study, and show facility in reading one modern language besides English.

A student who has already graduated in the Faculty of Arts, Med., or Sci. of a Canadian or other recognized Univ. may complete the course in Dentistry in 4 yrs. instead of 5, provided he has covered certain prescribed subjects during his undergrad. course; and persons holding the L.D.S. of one of the Med. authorities of Great Britain or the B.D.S. of approved Australian Univs. may be admitted to the Fac. of Dentistry without further examn., and to the final D.D.S. examns. on completing one full session in the Fac. of Dentistry.

*Higher Degrees.* M.A., obtainable by approved course of graduate study extending over 2 yrs. or, in the case of a B.A. in an Honours course, 1 yr.; Ph.D., open to a graduate in Arts (or, on special conditions, another Faculty) of this or another recognized Univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required.

B.L.S. (Bachelor of Library Science), 1 yr. course open only to Univ. graduates.

M.S. obtainable after 2 yr. course open only to graduates in Med. of a recognized Univ. The D.P.H. course (for Med. graduates) covers 11 months — 1 winter and 1 summer session.

The M.A.Sc. may be obtained by a B.A.Sc. graduate of this Univ. or one who holds an equivalent degree from some other Univ. who pursues a course of advanced study in the Faculty for 1 yr., presents a satisfactory thesis, and passes such examns. as may be prescribed.

The M.Arch. may be obtained by one who holds the degree of B.Arch. or B.A.Sc., or an equivalent degree, under the same conditions as the M.A.Sc. degree.

The professional degrees, C.E., M.E., Mech.E., E.E., Chem.E., Met.E., are open to candidates who, after obtaining the B.A.Sc. or diploma of the Faculty, spend 3 yrs. in the actual practice of one of these branches of engineering, present a satisfactory thesis, and pass examns.

The F.E. may similarly be obtained by one who holds the degree of B.Sc.F., and the M.Sc.F. in 2 yrs.

The B.Pæd. is open to candidates holding an approved degree in Arts, Sci., Agric., Engin., or Comm., and a certif. as teacher valid in one of the Provinces of Canada and issued after a regular course in an approved training school or the equivalent of such certif. and course of training. They must attend the Ontario Coll. of Education during two regular Coll. sessions or three summer sessions, with certain exceptions.

The D.Pæd. is open to graduates in Arts, Science, Agric., Engin., or Comm., of any British Univ. who hold the B.Pæd. degree and a teacher's certif. valid in one of the Provinces of Canada and pass prescribed examns. A thesis is also required, and the candidate must have attended one regular session or a summer course.

The M.S.A. is open to grads. who have obtained the B.S.A. degree or its equivalent.

The M.Sc. (Dent.) is open to grads. of the Fac. of Dentistry of Univ. of Toronto or those with equivalent standing. It involves at least 2 years' work.

The M.V.Sc. or the D.V.Sc. is open to grads. who have obtained the B.V.Sc. degree or its equivalent.

The Mus.D. is open to a Mus.B. of this or another Univ. of 3 yrs.' standing.

The Univ. publishes annually an announcement of *Graduate Courses*. All communications on the subject must be addressed to the School of Graduate Studies.

**TRAINING OF TEACHERS.** Courses are provided for Teachers' certificates of several grades, including the Household Science and the Physical Culture Teachers'. The Educn. Dept. of Ontario grants certifs. on the completion of the prescribed courses, entitling the holders to teach in the High Schools. All teachers for High Schools and Collegiate Institutes must spend at least 1 yr. in the College of Education.

**FEES.** Students proceeding to the B.A. and enrolled in one of the Colleges of the Univ. attend lectures of Univ. Profs. and Lectrs. in the Fac. of Arts without payment of fees except for lab. supplies. The College Fees, which entitle students to attend lectures in their respective Colleges, are \$125 p.a.; B.Com., \$165 p.a. Medical students pay for tuition, lib., lab. supply, hospital and annual examn., 1st yr., \$175 p.a., 2nd and 3rd yrs., \$250 p.a., 4th, 5th and 6th yrs., \$275 p.a. Applied Sc. and Engin., \$225 p.a.; Household Sc., \$150 p.a.; Certificate courses in the Coll. of Education cost \$50 p.a.; Library School, \$75 or \$150 p.a.; Forestry, \$150 p.a.; D.P.H., \$200 p.a.; Dentistry, \$250 (\$175 for 1st yr. only) p.a.; Social Science, \$125 p.a.; School of Nursing, \$100 p.a.

**SCHOLARSHIPS.** Numerous fellowships, scholarships, bursaries, and prizes are available. In the Fac. of Arts there are 29 scholarships for students in their 1st yr. (1 open to women only), 28 in 2nd yr. (1 open to women only), between 30 and 40 in 3rd yr., 9 in 4th yr., and a number open to students of any yr. In the Fac. of Med. there are 20 fellowships, scholarships, and bursaries, of which 6 are open only to graduates. In the Fac. of Applied Sc. and Engin. 19, 3 being for graduates only. Several in the Facs. of Forestry and Dentistry, and in the Fac. of Household Sc. 2.

For post-graduate scholarships and fellowships, etc., open to non-members of the Univ., see App. II.

**RESIDENCE.** University Houses accommodate 150 men, rent, \$3.25 a week; Univ. Coll. Houses, residence for 30 men, rent \$3.25 a week; residence and board for women (190), about \$9 a week; Victoria Coll. Halls for 140 men, about \$9 a week, and 175 women, from \$272 p.a.; Trinity Coll. provides for 120 men and 70 women; St. Michael's (R.C.) has also residences for men and women.

**HART HOUSE,** the gift of the Massey Foundation in memory of Mr. Hart Massey, affords all the facilities of a first-rate club for men undergrads. It includes many halls and rooms, providing for all the activities in the undergrads' life other than work in the lecture room. Annual fee, \$12. Warden—J. B. Bickersteth, M.A.

**MEDICAL ADVISER FOR WOMEN STUDENTS**—Edith Gordon, B.A., M.B., D.P.H.

**UNIVERSITY EXTENSION AND PUBLICITY.** (1) Classes are held in the evenings and on Saturdays, for teachers proceeding to the B.A. degree. (2) Summer Session in Arts and Pedagogy for teachers. (3) Extension lectures throughout the Province. (4) Evening classes offering continuous courses in sixty subjects, without Univ. credit. (5) Courses in Public Administration. (6) Correspondence courses in commercial subjects. (7) Two-yr. diploma courses in Occupational Therapy and in Physio-therapy. (8) Workers' Educational Association classes. (9) Short refresher courses for nurses and others. (10) Publication and distribution of various bulletins and pamphlets for the Univ. (11) Univ. exhibits. (12) Radio lectures. Total no. attending Extension lectures, 33,597. Total no. in Extension courses and classes, 7622. Director—W. J. Dunlop, B.A., B.Pæd.

**PUBLICATIONS.** *President's Annual Report*; *Board of Governors' Report*; *Calendars*, April-May; *Bulletins of the Dept. of University Extension*; *Medical Bulletin*; *Univ. of Toronto Monthly*; *Univ. of Toronto Quarterly*; *Can. Historical Review*; *Can. Journal of Econ. and Polit. Sc.*; *Univ. Studies*; *Students' Mags.*—*Varsity*, *Torontonensis*.

## THE YEAR 1936-37

**BENEFACTIONS.** Reuben Wells Leonard Bequest, \$79,341.44. Rockefeller Foundation for: Child Research and Parent Education, \$20,017.23; School of Nursing, \$17,499.76; Alberta Social Credit Experiment, \$500. Eaton Endowment, Annual Payment, \$25,000. Ontario Mining Assn. Grant, Silicosis, \$10,000. Carnegie Corporation for: Fine Art, \$7,389.25; Workers' Educational Assn., \$1,997.50. A. C. Ransom Fund, Applied Science, \$5,000. Reuben Wells Leonard Fellowship and Schol'ps., \$3,700. J. S. McLean Fellowship, \$2,500. Sir Joseph Flavelle, E. R. Peacock, Esq., for Flavelle-Peacock Lectureship, each \$1,250. Lindsley Fellowship, Geophysics, \$1,600. Graduate Fellowships donated by: Sir Joseph Flavelle, \$500; Imperial Oil, Ltd., \$500; Estate late Sir Edward Kemp, \$500. Canadian National Committee for Mental Hygiene, Psychiatry, \$1,273.14; Pakenham Memorial Prize, \$1,025; H. R. Bain Matricn. Schol'p., \$1,000; D. A. Dunlap Memorial Schol'p., \$1,000; J. W. L. Forster Library Fund, Fine Art, \$1,000; Standard Brands Research Fund, Chemistry, \$748.75; Sir Edmund Walker Schol'p., \$450; Medical Society Bursary, \$400; University College Alumni Matricn. Schol'p., \$400; Gertrud Davis Exchange Fellowship, \$400; Robert Bruce Schol'p., \$394.15; Robert Simpson Co. Schol'ps., \$350; S. R. Parsons Schol'p., Commerce and Finance, \$250; J. B. Willmott Schol'ps. in Dentistry, \$250; Robert A. Bryce, Esq., U.T.S. Engineering Schol'p., \$250; Canadian Dental Assn. Research Fund, \$200; Prof. E. J. Urwick, Social Science Bursaries, \$200; Ontario Assn. of Architects Schol'p., \$200; Boiler Inspection and Insurance Co. Schol'p., Mech. Engin., \$150; Pan-Hellenic Assn. Prizes, \$150; George Kennedy Schol'p., \$130.56; Sarah Kennedy Schol'p., \$130.56; J. A. Findlay Schol'p., Mech. Engin., \$120; Sir John Eaton Memorial Schol'p., Univ. Schools, \$120; University College Alumnae Schol'p., \$100; Maurice Hutton Matricn. Schol'p., \$100; Darling and Pearson Prizes in Architecture, \$100; Toronto Brick Co. Prizes, Architecture, \$100; Hon. Chas. McCrea for Dent McCrea Schol'p., \$100; University Tours Assn. Schol'p., \$100. Miscellaneous Donations, \$574.7.

**NEW COURSES.** Four-year honour course in Music, leading to degree of B.A. Four-year course in Mining Geology, leading to degree of B.A.Sc. Establishment of degree of B.L.S. (Bachelor of Library Science), one-year course open only to Univ. grads.

**RETIREMENTS.** Brig.-Gen. G. S. Cartwright (Military Studies); Prof. W. L. Miller (Chem.); Prof. E. J. Urwick (Pol. Sci.); Prof. T. L. Walker (Mineral).

**RESIGNATIONS.** Prof. H. J. Davis (English); Prof. W. M. Drummond (Pol. Sci.); Prof. W. C. Ferguson (Educ.); Prof. L. Irving (Biol.).

**DEATHS.** Prof. O. Klotz (Pathol. and Bacteriol.); Prof. W. A. Parks (Geol.); Prof. L. B. Stewart (Surveying and Geodesy); Prof. A. E. Webster (Operative Dent.).

**VISITING TEACHERS.** Prof. J. H. Hanford, Western Reserve Univ., Cleveland, Ohio; Prof. H. Henel, Queen's Univ., Kingston.

HONORARY DEGREES. *LL.D.*—Walter Seymour Allward, Sculptor; Oliver R. Avison, M.D., Medical Missionary; Lawrence Johnston Burpee, President, Royal Society of Canada; Robert Hamilton Coats, B.A., Dominion Statistician; Hon. Henry Hague Davis, M.A., LL.B., Judge of the Supreme Court of Canada; Rev. Hugh Thomson Kerr, M.A., Presbyterian Minister, Pittsburgh, U.S.A.; Duncan McArthur, M.A., Deputy Minister of Educ. of Ontario; Michael Alexander Mackenzie, M.A., Prof. Emeritus, Univ. of Toronto. *D.Sc.*—Arthur Jeffrey Dempster, M.A., Ph.D., Prof. of Physics, Univ. of Chicago. *D.Eng.*—Andrew Harkness Harkness, B.A.Sc., Consulting Engineer.

STUDENTS. The total number of registered students was 8136.

DEGREES. B.A., 643; M.A., 87; Ph.D., 32; B.Com., 31; M.D., 113; B.Sc. (Med.), 4; B.A.Sc., 130; M.A.Sc., 11; C.E., 2; B.Arch., 7; M.Arch., 1; B.H.Sc., 21; B.Pæd., 42; D.Pæd., 3; B.L.S., 31; B.Sc.F., 9; Mus.Bac., 7; D.D.S., 51; LL.B., 2; B.S.A., 108; M.S.A., 2; B.V.Sc., 34; Phm.B., 84.

# UNIVERSITY OF TRINITY COLLEGE, TORONTO

Founded 1851

(*Federated with the University of Toronto.*)

VICE-CHANCELLOR AND PROVOST—Rev. F. H. COSGRAVE, M.A., D.C.L.

DEAN OF RESIDENCE—Rev. G. F. KINGSTON, M.A., B.D., Ph.D.

REGISTRAR—J. N. WOODCOCK, M.A. Ox.

DEAN OF DIVINITY—Rev. J. LOWE, M.A.

LIBRARIAN—S. M. ADAMS, M.A.

BURSAR—SYDNEY H. JONES.

PROFESSORS AND LECTURERS: The Profs., etc., marked (T.) in the consolidated list of the University of Toronto.

The University of Trinity College, founded 1851, Royal Charter, 1852, federated with the Univ. of Toronto, 1904, now confines its Univ. work to the two Faculties of Arts and Divinity. As an Arts College it forms an integral part of the Fac. of Arts of the Univ. of Toronto. The courses of instruction are prescribed by that Univ. Instruction is given in the Coll. in all subjects assigned to the Arts Colls. These include Greek, Latin, Greek and Roman Hist., Ancient Oriental Hist., Oriental Langs., Engl., German, French, Ethics, and Religious Knowledge. Instruction in other subjects of the Arts Courses is given by the Univ. Students of the Coll. receive the degrees of the Univ. of Toronto at the conclusion of their courses. As a Theological Coll., Trinity maintains its own Fac. of Divinity and confers degrees.

LIBRARY, 35,000 vols.

PUBLICATIONS. *Calendar* (May); *Trinity Univ. Review*, monthly; *St. Hilda's Quarterly Chronicle*.

## THE YEAR 1936-37

BENEFACTIONS. \$17,553.

STUDENTS. Full-time: 393, including 16 graduates.

HONORARY DEGREES. *D.D.*—Most Rev. John Andrew Richardson, Archbishop of Fredericton; Most Rev. Malcolm McAdam Harding, Archbishop of Rupert's Land; Venerable Francis Cooke Heathcote, Archdeacon of Vancouver.

DEGREES. Degrees in Arts listed under the University of Toronto.



# VICTORIA UNIVERSITY, TORONTO

Founded 1841

(Federated with the University of Toronto.)

Telegraphic Address : Viccollege, Toronto.

CHANCELLOR AND PRESIDENT—REV. E. W. WALLACE, M.A., D.D.

PRINCIPAL, VICTORIA COLLEGE—W. T. BROWN, M.A., Ph.D.

PRINCIPAL, EMMANUEL COLLEGE—REV. R. DAVIDSON, M.A., Ph.D., D.D.

REGISTRAR—PROF. H. BENNETT, B.A., Ph.D.

LIBRARIAN—REV. F. L. BARBER, M.A., Ph.D.

## TEACHING STAFF

### ARTS (Victoria College)

[See the consolidated list under Toronto, names marked (V.).]

### THEOLOGY (Emmanuel College)

#### *Church History*

Cousland, Rev. K. H., M.C., M.A.  
Ox., B.D. Prof.

#### *Old Testament Lit. and Exegesis*

Davidson, Rev. R., M.A., Ph.D.,  
D.D.

#### *Ethics*

Lane, W. B., M.A., Ph.D.  
Ryerson Prof.

Eliza Phelps Massey Prof.

#### *Philosophy and History of Religion*

Line, Rev. J., M.A., S.T.D., D.D.

#### *Homiletics*

Orton, Rev. A. S., M.A., S.T.M.,  
D.D. Margaret Cox Prof.

#### *Public Speaking*

McMullen, Rev. G. A., B.A. Lectr.

#### *Missions*

Wallace, Rev. E. W., M.A., D.D.  
Prof.

#### *Religious Pedagogy*

Langford, Rev. F. W., B.A.,  
M.R.E., D.D. Prof.

#### *New Testament Lit. and Exegesis*

Michael, Rev. J. H., M.A., D.D.  
Geo. A. Cox Prof.

#### *Systematic Theology*

Dow, Rev. J., M.A., D.D. Prof.

Macleod, Rev. J., M.A. Glas., D.D.  
Prof.

## GENERAL INFORMATION

In 1928, by Act of the Legislature of the Province of Ontario, Victoria University, originally founded as the Upper Canada Academy in 1836, received an amended charter by which it continues in federation with the University of Toronto and in connexion with the United Church of Canada (formed in 1925 by the union of the Congregational, Methodist, and Presbyterian Churches in Canada), and includes within itself, under one Board of Regents and one Senate, two Colleges, Victoria College in Arts and Emmanuel College in Theology, the latter formed by the union of the Victoria University Faculty of Theology with Union Theological College. For early history, see *Yearbook* for 1929.

LIBRARY. Special features—Canadian verse and Tennysonianism (C. C. James's collections), Methodism in Canada, Education in Ontario.

COURSES. 3 yrs. for Pass B.A.; 4 yrs. for General Course and Honour Courses; 3 yrs. for B.D., subsequent to graduation in Arts; 3 yrs. for Diploma in Theol., subsequent to 3 or 4 yrs. in Arts.

HOSTELS for 225 men and 160 women students.

PUBLICATIONS. *Theological Calendar* (May); *Bulletin* (June); *Acta Victoriana*, a students' monthly.

## THE YEAR 1936-37

HONORARY DEGREES. *D.D.*—Rev. Arnot Stanley Orton, M.A., S.T.M.; Rev. Robert Bird Steinhauer, B.A.

STUDENTS. Full-time: 922. Occasional: 4.

DEGREES. *Theology*—B.D., 10; Diplomas, 29. *Arts*—(conferred by Univ. of Toronto, see consolidated list).

# UNIVERSITY OF WESTERN ONTARIO, LONDON, ONT.

Founded 1878

VISITOR—His Honour the LIEUT.-GOVERNOR OF ONTARIO.

CHANCELLOR—Col. The Hon. HENRY COCKSHUTT, LL.D.

CHAIRMAN OF THE BOARD OF GOVERNORS—A. T. LITTLE.

PRESIDENT—W. S. FOX, Ph.D. Johns Hopk., D.Litt. McM., LL.D.  
Qu., Ottawa and Alta., F.R.S.C.

REGISTRAR—Prof. K. P. R. NEVILLE, M.A. Harv., Ph.D. Cornell.

LIBRARIAN—F. LANDON, M.A., F.R.S.C.

BURSAR AND EXECUTIVE SECRETARY—Col. W. J. BROWN, B.S.A. Tor.,  
LL.M. Chic., F.C.I.S.

ADVISER OF WOMEN—ADA DOROTHY TURVILLE, Ph.D. Columbia.

## TEACHING STAFF

<i>Anatomy</i>		Carruthers, C. C., B.A., LL.B.	
Skinner, H. A., M.B. Tor.		(Comml. Law) Lectr.	
	Assoc. Prof.	<i>Chemistry</i>	
6 Instrs.		Gunton, J. A., M.A. McM., Ph.D.	
		Ill. Prof.	
<i>Astronomy, v. Maths.</i>		Burns, J. W., M.Sc. Qu.	
<i>Bio-Chemistry</i>		Assoc. Prof.	
Macallum, A. B., B.A., M.D.,		Sivertz, C., B.A.Sc. Br. Col., M.Sc.,	
Ph.D. Tor., F.R.S.C. Prof.		Ph.D. McG. Assoc. Prof.	
1 Instr.		Hunten, K. W., Ph.D. McG.	
		Asst. Prof.	
<i>Biology, Applied</i>		4 Assts.	
Detwiler, J. D., M.A. Qu., Ph.D.		<i>Classics</i>	
Corn. Prof.		Neville, K. P. R., B.A. Qu., M.A.	
<i>Botany</i>		Harv., Ph.D. Corn. Prof.	
Hart, N. C., M.A. Tor. Prof.		Auden, H. W., M.A. Camb. Prof.	
Walker, A. R., M.A. Tor. Prof.		Pemberton, R. E. K., M.A. Camb.	
Berdan, Helen B., M.A.		Assoc. Prof.	
	Assoc. Prof.	Ralph, J. D., Ph.D. Chic.	
<i>Business Administration</i>		Assoc. Prof.	
Hensel, P. H., M.B.A. Harv. Prof.		Robson, D. O., Ph.D. Tor.	
Sipherd, L., M.B.A. Harv.		Asst. Prof.	
	Assoc. Prof.	<i>Economic and Polit. Science</i>	
Thompson, W. A., M.B.A. Harv.		Logan, H. A., B.A. Acad., Ph.D.	
	Assoc. Prof.	Chic. Prof.	

Reilly, E. E., B.S.A. Tor., M.S.  
Wis. Assoc. Prof.  
Inman, M. K., B.A. Acad., M.A.  
Harv. Assoc. Prof.

*Elocution*

Walker, Jean I. Instr.

*English*

Tamblyn, W. F., M.A. Tor., Ph D.  
Col. Prof.  
Spenceley, J. A., B.A. Tor., M.A.  
Harv. Prof.  
Albright, Evelyn, B.A. Tor., M.A.  
Chic. Assoc. Prof.  
Stiling, F., M.A. Asst. Prof.  
Neville, Jean T., M.A. Lectr.  
Liddicoatt, Doris, M.A. Lectr.  
Doherty, Eleanor, Ph.D. Harv.  
Lectr.

*French and Italian*

Bassett, M. E., B.A. Mich., A.M.  
Princeton Prof.  
Turville, Ada Dorothy, Ph.D. Col.  
Assoc. Prof.  
Jenkin, H. E., B.A. Lond. Asst. Prof.

*French and Spanish*

Collin, W. E., B. ès L. Toulouse,  
M.A. Asst. Prof.  
Montgomery, F., D. de l'U. Paris  
Instr.

*Geology*

Russell, J. W., M.A. McM. Prof.  
Reavely, G. H., M.A. Assoc. Prof.

*German*

Allen, R. A., M.A. Tor., Ph.D. Chic.  
Prof.  
Taube, E., Ph.D. Wisc. Asst. Prof.  
1 Instr.

*Hebrew*

Waller, Rev. C. C., M.A. Camb.  
and McG., D.D. Prof.

*History*

Dorland, A. G., B.A. Qu., M.A.  
Yale, Ph.D. Tor., F.R.S.C.  
Prof.

Landon, F., M.A., F.R.S.C.  
Assoc. Prof.  
Maine, S. F., B.A., B.D. Vict.,  
M.A., Ph.D. Chic.  
Assoc. Prof.

Thomas, H. M., M.A. Qu., Ph.D.  
Harv. Asst. Prof.

*Law*

Carruthers, C. C., B.A., LL.B.  
Lectr.

*Library Science*

2 Instrs.

*Mathematics and Astronomy*

Kingston, H. R., M.A. Qu., Ph.D.  
Chic. Prof.  
Woods, A., M.A. Qu. Assoc. Prof.  
Magee, G. R., M.S., Ph.D. Chic.  
Asst. Prof.

*Medicine, v. infra*

*Philosophy and Psychology*

Liddy, R. B., Ph.D. Tor., LL.D.  
Mt. All. Prof.  
Wilson, D. J., Ph.D. Tor. Asst. Prof.  
Sage, G. B., M.A. Trin., D.D.,  
LL.D. Lectr.  
Johnston, A. H., M.A., Ph.D. Tor.  
Instr.

*Physical Education*

Crocker, J. H., M.P.E. Springfield  
Dir.

*Physics*

[Prof.]  
Dearle, R. C., B.A., Ph.D. Tor.  
Allen, R. L., M.A. Mt. All.  
Assoc. Prof.  
Foster, Willena, M.A. Tor.  
Assoc. Prof.  
Durnford, W. A., Ph.D. Tor.  
Asst. Prof.

*Physiology*

Miller, F. R., M.A., M.B. Tor.,  
M.D. Mun., F.R.S.C., F.R.S.  
Prof.  
Ferguson, J. K. W., M.A., M.D.  
Tor. Asst. Prof.

*Secretarial Science*

Keyes, M. Assoc. Prof.  
3 Assts.

*Zoology*

Robertson, A. D., M.A. Tor. Prof.  
Battle, Helen, M.A., Ph.D. Tor.

Assoc. Prof.

5 Assts.

*Medicine*

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Anæsthetics*

Jepson, G. L., M.D. Asst. Prof.  
4 Assts.

*Histology*

Macklin, C. C., M.B., M.A., Ph.D.  
Tor., F.R.S.C. Prof.

Macklin, M. T., M.D. J. Hop.  
Asst. Prof.

*Medicine*

Hale, G. C., M.D., C.M. McG. Prof.  
Childs, J. R. N., M.D. Assoc. Prof.

Campbell, F. J. H., B.A., M.D.,  
M.R.C.P. Assoc. Prof.

Hughes, F. W., M.D. Asst. Prof.  
15 Instrs.

*Obstetrics and Gynæcology*

Clegg, F. R., M.D. Assoc. Prof.  
Tew, W. P., M.B. Tor., F.R.C.S.

Edin. Assoc. Prof.

4 Instrs.

*Ophthalmol., Otol., Rhinol., and  
Laryngol.*

Thompson, S., M.D., F.A.C.S.  
Prof.

Brown, W. J., M.D., C.M. McG.,  
F.A.C.S. Assoc. Prof.

Armstrong, J. R., M.D.  
Asst. Prof.

1 Instr.

*Pathological Chemistry*

Crombie, D. W., M.D., C.M. McG.  
Asst. Prof.

*Pathology and Bacteriology*

Fisher, J. H., M.Sc., M.D.  
(Bact.) Prof.

Luney, F. W., M.D., D.P.H.  
(Path.) Assoc. Prof.

Johns, E. P., M.D. Asst. Prof.  
5 Instrs.

*Pediatrics*

Tillmann, W. J., M.D. Prof.  
Lindsay, J. C., M.B. Tor.

Asst. Prof.

Denney, W. L., M.D. Asst. Prof.  
Little, H. G., M.B. Tor., F.R.C.P.

Can. Asst. Prof.

4 Instrs.

*Pharmacology*

Waud, R. A., M.D., M.Sc., Ph.D.  
Chic. Assoc. Prof.

1 Demr.

*Physiotherapy*

McLean, W. J., M.B. Tor.  
Assoc. Prof.

*Psychiatry*

Stevenson, G. H., M.D. Prof.  
3 Instrs.

*Public Health*

Slack, A. J., Ph.C. Mass., M.D.,  
D.P.H. Prof.

1 Instr.

*Radiology*

McNeill, G., M.D., F.A.C.S. Prof.  
Andrus, P. M., M.D. Asst. Prof.

4 Instrs.

*Surgery*

Wilson, J. C., M.D., F.A.C.S.  
Assoc. Prof.

Ramsay, G. A., M.D., F.A.C.S.  
(Orthop. S.) Assoc. Prof.

Busby, E. D., B.A., M.D., F.A.C.S.  
Assoc. Prof.

5 Instrs.

## AFFILIATED INSTITUTIONS

ASSUMPTION COLLEGE, Sandwich, Ont. Principal, Prof. of Science, A. T.  
McDonald, M.A. Col. 20 other Profs. of Arts subjects.

URSULINE COLLEGE, London, Ont. Dean and Prof. of French, Mother M. St. Anne, M.A. Col. 17 other Profs. of Arts subjects.

WATERLOO COLLEGE, Waterloo, Ont. Dean, Prof. of Classics, W. C. Froats, M.A., B.Pæd. Tor. 15 others in Arts Dept.

The above three Colleges give the full 4-yr. Arts Courses.

ALMA COLLEGE, St. Thomas, Ont., is a Junior Coll., giving the first 2 yrs. in Arts only. Principal, P. S. Dobson, M.A. Ox., D.D. 7 other teachers.

HURON COLLEGE, London, Ont., is a theological coll. Principal, Prof. of Div. and Hebrew, Rev. C. C. Waller, M.A. Camb. and McG., D.D. Other teachers not on staff of the Univ. : Rt. Rev. Bishop of Huron, D.D., LL.D., Lectr. in Bib. Exeg. ; Rev. F. Anderson, M.A., B.D., D.D. Ox., Prof. of Ch. Hist. ; Rev. K. Taylor, B.A. Ox., B.D., Prof. of Ch. Hist. ; Ven. Archdeacon Sage, M.A., D.D., LL.D., Prof. of Apologetics.

## GENERAL INFORMATION

Incorporated by an Act of the Provincial Legislature in 1878 as the "Western University of London, Ontario," in connexion with the Church of England, the Univ. has become, under the provisions of amending Acts of 1908 and 1923, absolutely undenominational in its government, which is under provincial and municipal control. It consists of 3 Instns., the Coll. of Arts (University College), the Medical School, and the Institute of Public Health.

FACULTIES. Arts, Medicine, Public Health.

DEGREE COURSES. 4 or 5 yrs. (from Junr. Matricn.), B.A. ; 5 yrs., B.Sc. (in Nursing) ; 1 or 2 yrs.' graduate work, LL.B., M.A., M.Sc. ; 6 yrs., M.D. Attendance on part of the classes (other than Med. and Sci.) may be dispensed with by the Senate, but all students must have attended lectures in the Univ. for at least 2 yrs. before they can graduate.

DIPLOMAS AND CERTIFICATES. Diploma in Business Administration ; Diploma of Public Health (D.P.H.). Certificate of Public Health Nurse, (C.P.H.N.) ; Certificate of Instructor in Nursing (C.I.N.) ; Certificate of Hospital Administration (C.H.A.) ; courses each 1 yr., for graduate nurses.

FEES. Annual : Arts, \$125 ; Medicine, \$225 ; Public Health, \$140.

THE LIBRARIES contain c. 130,000 vols. and several thousand pamphlets. The Barnett collection contains many rarities dealing *inter alia* with Canadian and American history. The Shakespeariana number c. 1500 vols. and several thousand pamphlets.

PUBLICATIONS. *Calendar* (May) ; *Report of Faculty of Public Health* (May) ; *Medical School Announcement* (May) ; *Univ. Gazette*, twice a week during term.

## THE YEAR 1936-37

EXTRA-MURAL WORK. Regularly carried on.

HONORARY DEGREES. D.D.—Rt. Rev. Philip Lindel Tsen, Bishop of Honau. LL.D.—(June 1937) Sir Josiah Stamp ; (Oct. 1937) Isaiah Bowman, President of Johns Hopkins Univ.

STUDENTS. Full-time : 1318, including 12 graduates. Part-time : 1298, including 16 graduates ; Duplicates, 329 ; Net, 969. This includes Summer School, 634 ; Extra-mural, 357 ; Extension, 120 ; Net total, 2287.

DEGREES. B.D., 1 ; D.D., 1 (by examn.) ; B.A., 249 ; M.A., 14 ; B.Sc., 4 ; M.D., 46 ; Dipl. in Business Admin., 4 ; Dipl. in Home Economics, 1 ; Certif. of Public Health Nurse, 5 ; Certif. of Instr. in Nursing, 2.

# THE UNIVERSITIES OF AUSTRALIA

ADELAIDE	MELBOURNE	QUEENSLAND, BRISBANE
SYDNEY	TASMANIA, HOBART	WESTERN AUSTRALIA, PERTH

## GENERAL DESCRIPTION

[Revised in 1931 and 1936 by Professor J. T. Wilson, M.A., LL.D., M.B., Ch.M., F.R.S., St. John's College, Cambridge, representative of the University of Sydney on the Universities Bureau, and one of two members representing Australia on the Executive Council of the Universities Bureau, and further revised for this edition by the Australian Vice-Chancellors' Committee.]

EACH State of the Commonwealth of Australia possesses a University in its capital city. Geographically they are by no means near neighbours. Those most widely separated—at Brisbane and Perth respectively—are effectively not less than 3000 miles apart; whilst to visit even the nearest sister University involves in each case a journey of some 500 miles.

Nevertheless these Universities form a relatively homogeneous group owing to their general similarity of origin and constitution and to their relationship to the communities which they serve. All of them owe their establishment to Acts of the State Legislatures carried through in response to popular demands. They are not, however, "State Universities" in the American sense, but, like the British Universities generally, are, by statute and Royal Charter, self-governing academic corporations.

Underlying this general uniformity of type there are not a few individual differences and variations. These may be referred to several factors: differences in dates of foundation (1850-1911) necessarily determine more or less the stage and degree of academic development actually reached; also, the academic ideas current at different foundation periods have undoubtedly impressed themselves on the academic structure and development of both older and younger Universities. Further, another obviously important differentiating factor has been that of inequality of material resources available, both from private endowment and from State subsidy—the latter being naturally dependent in large measure on the extent of the population of the State concerned.

**RESIDENTIAL COLLEGES.** A residential University of the traditional Oxford and Cambridge type was without doubt the ideal in the minds of the founders of the first Australian Universities. But they recognized clearly that the accepted secular basis of the civil government precluded the attempt at its full realization. Accordingly, a compromise was effected by the establishment of more or less independent Colleges by some of the larger religious denominations to provide for residence and religious supervision of matriculated students of the University. In some cases (*e.g.* Sydney) these Colleges are defined as

" within the University " and an allocation of areas of the University domains for their buildings and grounds was effected by statute, as well as some endowment of the Headship of the College.

Colleges of essentially similar character have since been set up in all the later founded Universities. In addition, residential Colleges for women have been founded in connexion with the Universities of Melbourne, Sydney and Queensland.

The Colleges generally, whether under denominational control or not, are open to all matriculated students, without religious test.

The Colleges and Halls of residence thus far established are :

SYDNEY—St. Paul's (1854, C. of E.) ; St. John's (1857, R.C.) ; St. Andrew's (1867, Presb.) ; The Women's College (1890, Undenom.) ; Wesley (1910, Meth.) ; Sancta Sophia (1929, R.C. for women).

MELBOURNE—Trinity (1872, C. of E.) ; Ormond (1879, Presb.) ; Queen's (1888, Meth.) ; Newman (1916, R.C.) ; University Women's College (1937, Undenom.) ; Associated with Trinity and Newman respectively are Janet Clarke Hall (1886) and St. Mary's Hall, for women students.

ADELAIDE—St. Mark's (1925, C. of E.).

QUEENSLAND—Emmanuel (1912, Presb.) ; St. John's (1912, C. of E.) ; King's (1912, Meth.) ; Women's Coll. (1914, Undenom.) ; St. Leo's (1917, R.C.) ; Duchesne Coll. (1936, R.C. Women).

WESTERN AUSTRALIA—St. George's (1931, C. of E.).

TASMANIA—Christ College (1933, C. of E.).

All the Colleges possess their own independent governing bodies. In those under denominational control both clerical and lay elements are represented, frequently in definite proportions.

Even in the older Universities of Sydney and Melbourne, where the College system is most strongly developed, only a comparatively small minority of the students are members of Colleges. Owing to the concentration of population in the capital cities of Australia, together with the fact that University students are largely drawn from the urban and suburban elements, the majority of the undergraduates reside in their own homes. In Sydney, and probably also in Melbourne, the collegiate students form only about fifteen per cent of the whole undergraduate body. Nevertheless, the influence of the Colleges on the general life of the University, intellectual, social, and athletic, is much more real and effective than their numbers would suggest.

CONSTITUTION OF UNIVERSITIES. A. *Governing bodies.* In their statutory constitution the governing bodies of all the Australian Universities present a generally similar composite character, whilst differing in the proportions of the component elements. Their membership varies in number from 18 to 31. In every case there is a substantial proportion of representatives elected by the general body of graduates, varying from one-third to more than one-half of the total membership, but only in two cases (Adel. and W.A.) does it form the preponderant element. In every University there is now a more or less direct representation of the State on the governing body, either by nomination by



the Governor-in-Council or by election by the Houses of Parliament, and in two cases by *ex officio* representation of the State Department of Education. In the more recently founded Universities the representation of the State Government is strong; in one instance it is equal to the academic, and in another it is even slightly preponderant.

The academic representative element invariably includes representatives of the teaching staff, though only in Sydney, Melbourne and Tasmania by independent statutory right. In most cases their number is by ordinance limited to three, elected as part of the general representation of the academic body by the graduates.

The Melbourne University Act of 1923 introduced certain novel provisions, namely, that the Government nominees shall include representatives not only of Parliament but of manufacturing, commercial, agricultural, and industrial interests, as well as a representative of the technical schools; it also provided that two Heads of Colleges and two elected representatives of the undergraduate body shall have seats on the governing body.

The governing body in the Australian Universities is designated either the "Senate" (Syd., Queens., W. Aust.), or "Council" (Melb., Adel., Tas.).

*B. Graduate academic body.* As in the British Universities generally, there is in each of the Australian Universities another statutory academic body, consisting in the main, though not in all cases exclusively, of the general body of graduates (usually of at least three years' standing). In Queensland the Governor-in-Council may appoint as members of this body one representative of "any commercial, industrial, scientific, professional, or educational society, institution, or association within Queensland." In the University of Western Australia the "Guild" of undergraduates has the right of electing one member of this body.

In those Universities in which the governing body is entitled "Senate" the graduate body is called either Convocation or Council. Where the governing body is styled "Council" the graduate body is called either Senate or (in Melb. since 1923) Convocation.

Whilst the main effective function of this body is its electoral choice of its own representatives on the governing body, it has also, in several Universities, powers of deliberation, approval, and confirmation in respect of matters submitted to it and in some instances of suggestion, but in no case of initiation of University legislation.

*C. Other administrative bodies.* The general routine of studies and discipline is usually controlled by a "Professorial Board," whilst the special curricula of studies are the immediate concern of the Faculties and special boards of studies. Matters of discipline are in one or two instances dealt with by a special Proctorial Board or Board of Discipline.

**ADMISSION.** Attempts are being made to devise a common matriculation. The difficulty lies in difference of policy as to the part to be taken by entrance examination as a qualifying test, and as to requisite subjects. Generally speaking, matriculation requirements include passing a recognized examn. (school-leaving, matricn., etc.) in English, another approved language (at Sydney, *e.g.*, Latin, Greek, French,

German, Italian, or Japanese), Mathematics, and one or more other subjects. Special facilities are offered for matriculation in some Univs. and in some faculties to persons who have attained the age of 25 yrs. (in Western Australia, 23 yrs.). In Queensland (all Faculties) and Western Australia (Arts) such persons are admitted on passing a special Adult Matriculation Examn. Owing partly to isolation by distance, migration of students from one University to another is not common. It would occur still more rarely were it not for the fact that several of the younger and smaller Universities do not yet provide opportunities for professional training in every direction, particularly in medicine. Hence it becomes necessary for some students, after one or two years' study in the University of their own State, to betake themselves to one of the older and larger Universities in order to prosecute their studies along definitely professional lines.

Although the requirements for entrance at the various Universities are not completely uniform, all possible reciprocity is exercised in the matter of such interchange of students, whether from Australian or British Universities.

**THE ACADEMIC YEAR.** Undergraduate status is ordinarily defined in terms of academic years of study, *e.g.* "first year," "fifth year," etc.

The academic year begins in March and ends in Nov. or Dec. It is subdivided into Terms, usually three, which may or may not include special examination periods. The Universities of Melbourne and Tasmania have each four Terms, but the fourth Term in these cases is devoted to examinations.

Although the inclusive dates of the terminal periods show some discrepancy in the different Universities, arrangements have been made to secure the coincidence of two of the inter-term vacations.

**PERIODS OF STUDY.** The Univ. requires not less than 3 yrs.' study for a B.A. or B.Sc.—4 yrs. if the B.Sc. is taken with Honours. The curriculum for the first degree in Med., formerly 5 yrs., has been lengthened to 6. The time needed to graduate in law varies; the Melbourne, Sydney and Queensland courses take 4 yrs., but Western Australia and Tasmania allow Arts graduates to do their law in 3 yrs. For information regarding other degrees and periods of study therefor, *see* under the several Universities.

**FEES AND COST OF LIVING.** The cost of living varies a good deal in different parts of Australia. A student will probably not notice much difference between Sydney and Melbourne in this respect. But anywhere he will find that £200 a year gives him quite sufficient means, for the climate is benign and good food is plentiful. The style of living everywhere is unostentatious. Decent board and lodging should not cost more than 35s. a week. Meals at the cost of 6d. to 2s. 6d. can generally be obtained at the University by members of "Unions" and others. Sydney Univ. Union has a Refectory seating 450, and one-half of it is open to all members of the University and their guests. Adelaide Univ. has a Refectory seating 400, and Melbourne has a Union building and separate dining-rooms seating upwards of 700. Western Australia is at present using one-half of dining-rooms which could accommodate

about 200. A developed Union at an Australian University also provides all the comforts of a non-residential Club for about £1 a year. Rowing, football, cricket, and other games may be had in the Sports Clubs on correspondingly easy terms.

Residence at a College is optional. College fees for residence and tuition range from 60 to 120 gs. per annum. Thus Wesley College, Sydney (Methodist), charges 28 gs. a term for resident students; Ormond, Melbourne (Presb.), from 110 to 120 gs. a year for residence during terms, according to the course being taken. St. John's, Queensland (Anglican), has fees of £21 per term, and the rates at the other Queensland Colls. are practically the same. The fees at St. Andrew's and at St. Mark's College, Adelaide, range from 102 to 114 gs. per annum. St. George's, Western Australia, charges £90 per annum, and Christ College, Tasmania, £60 per annum. Special arrangements can always be made for residence during vacations; for an example, Ormond then charges 2 gs. a week. Many men live in College on a total income of not more than £150 a year; it is doubtful if any will spend double that amount. There are few rich students and no tradition of expensive living among College men, no charming but costly ancient customs. The assistance from Scholarships and Bursaries is generous.

For University fees *see under* the several Universities below.

**CURRICULA AND COURSES OF UNIVERSITY STUDIES.** In general it may be said that the character and range of studies in the Australian Universities correspond fairly well with those of British Universities of comparable size and organization. There is, however, one notable exception: in accordance with the exclusively secular character of the Universities of Australia a Faculty of Theology is lacking in all of them, and no degrees in Divinity are obtainable in any Australian University. In the case of Sydney amending legislation passed in 1936 removed the exception of degrees in Divinity and Theology and it is likely that degrees in Divinity will be established in the near future. More or less associated with this situation is the absence of any courses of study in Oriental languages or literature, with the exception of Japanese, a Professorship for which exists in Sydney and in connexion with which lectures on Oriental history are also delivered. (A certain amount of teaching in Oriental languages is provided in Theological schools maintained by some of the religious denominations.) There is an Institute of Modern Languages at the Queensland University which provides courses up to Senior (School Leaving) Examination standard. The courses available in 1936 were Chinese, Dutch, French, German, Hebrew, and Italian. The University of Melbourne has Instructorships in Dutch, Japanese, Italian, Russian, Spanish and Scandinavian Languages. For the benefit of theological students Biblical Literature will become an optional subject of the Faculty of Arts from the beginning of 1938.

Subdivision of University studies into groups, under Faculties and Boards of Studies, has been carried further than is usually the case in British Universities. There has thus been a considerable accession of new Faculties beyond those traditionally recognized. The general

principle has been largely, though not consistently, adopted that any definite and distinct curriculum leading up to the award of a distinctive degree or degrees, warrants the creation of a separate and distinct Faculty as a Board for the regulation of the studies and examinations in such a curriculum.

Concurrently with this development there has been a marked tendency to the specialization and multiplication of distinctive degrees, so that in some cases we find that even within the limits of a single Faculty several distinctive degrees are obtainable along more or less differentiated lines of study. A conspicuous instance of this is seen in the Faculty of Engineering in Melbourne, in which no fewer than ten different degrees may be awarded as Bachelors and Masters of different branches of Engineering Science, Civil, Mechanical, Electrical, Mining, and Metallurgical, besides a Doctorate of Engineering Science. As many as thirteen different Faculties are found among the various Universities with a maximum number in Melbourne of twelve. In Sydney there are ten Faculties and in Adelaide nine, if the Board of Studies in Commerce be included. The establishment of Faculties of Law, Medicine, and Veterinary Science at the beginning of 1936 brought the number in Queensland up to nine.

Each University possesses Faculties of Arts, Science, and Engineering (designated "Applied Science" in Adelaide), and also of Law. All except Tasmania have Schools of Agriculture, although in Western Australia it is not a separate Faculty, but is included in the Faculty of Science. Sydney and Queensland have Schools of Veterinary Science organized as separate Faculties, Western Australia teaches Veterinary Science only as part of the Agricultural course. The course in Veterinary Science is at present suspended in the University of Melbourne, and students desiring to qualify for a degree must proceed to Sydney after the completion of their first year. In N.S.W. and W. Australia the law requires such qualifications as practically involve the Univ. curriculum in Veterinary Science.

The subject of Economics is represented by separate Professorships in each University, except in Queensland, where there is a joint chair of History and Economics. In Sydney there is a special Faculty of Economics, but, as there is no Faculty of Commerce, it includes all the various branches of both Economic and Commercial Studies. In Melbourne, Queensland, and Tasmania there are Faculties of Commerce, and in Adelaide and Western Australia Boards of Commercial Studies, under all of which the subject of Economics finds its primary orientation along with the various branches of Commercial theory and practice. Economics, however, is ordinarily included also as a subject which may be taken for an Arts degree.

In Sydney there is a fully organized Faculty of Architecture, and in Melbourne a Faculty of Architecture with a teaching school, but as yet no chair in that subject. There is a degree course in Surveying and a diploma course in Architecture in Queensland, both in the Faculty of Engineering.

Melbourne and Adelaide have each a Faculty of Music with a full Professorship and a Conservatorium. In Sydney there is a Conserva-

torium entirely independent of the University. Tasmania has a course of lectures leading to the degree of Bachelor of Music ; the course is at present conducted under the Faculty of Arts. In Queensland Music may be taken as a subject of the first year of the B.A. course.

Melbourne alone has a separate Faculty of Education granting University degrees of Bachelor and Master of Education. The Faculty contains several representatives of the State Department of Education. In all the other Universities the subject of Education comes under the Faculty of Arts and enters into the composition of such alternative curricula for the Arts degrees as are specially adapted to the requirements of the professional training of teachers. Sydney, Melbourne, and Western Australia have Professors of Education who are also heads of the State Training Colleges. Special Diplomas in Education are obtainable in the Universities of Sydney, Adelaide, Queensland, and Tasmania by University graduates or by students who have qualified for a degree (W. Aust.) and have had approved practical experience of teaching.

**PROFESSIONAL SCHOOLS AND RESEARCH INSTITUTES.** Each of the three older Universities, of Sydney, Melbourne, and Adelaide, possesses well organized and equipped professional schools under their Faculties of Medicine and Dentistry. These schools have long been, and are now, mainly responsible for the training of the medical and dental professions in Australia, whilst not a few of their graduates may be found occupying responsible positions outside Australia. The teaching and research staffs of these schools are also now largely recruited from the ranks of their own more distinguished graduates, but they are continually being reinforced by other teachers of distinction from outside Australia. Faculties of Dentistry and Medicine were established in Queensland in 1935 and 1936 respectively.

The relationship of the Medical Schools to the great general hospitals is intimate and effective. There is thus secured an extensive and varied clinical field, not only for undergraduate training, but in increasing measure for more advanced and specialized post-graduate study and research in conjunction with the scientific laboratories of the Universities and other Research Institutions. Such post-graduate work in various departments of specialized study now finds manifold guidance, and receives full official recognition, in connexion with the Diplomas awarded after appropriate courses of study. Amongst these may be specified the Diplomas in Psychiatry and Radiology at the University of Sydney and the Australian Diplomas in Public Health, Tropical Medicine and Tropical Hygiene from the Federal School of Public Health and Tropical Medicine in the University of Sydney, and more or less corresponding courses in the University of Melbourne, which also grants Diplomas in Ophthalmology, Laryngology and Otology, in Gynæcology and Obstetrics, in Therapeutic and Diagnostic Radiology, and in Psychological Medicine.

A Biophysics Section was established in Queensland in 1937 to manufacture radon and to carry out other work in connexion with the treatment of cancer.

The University of Adelaide established in 1925 an important centre for research in agricultural and allied subjects at Glen Osmond, three miles from the city. (See under Waite Agricultural Research Institute, p. 568) and Appendix III. B. 2.

There are various University and associated Research Institutes in Adelaide, Melbourne, and Sydney, where investigation is carried on into problems of Pathology, Bacteriology, Pharmacology, Radiotherapy, Cancer Research, Animal Nutrition, Entomology, etc.

**DIPLOMAS.** Numerous University Diplomas are now obtainable in various branches of study in the Universities of Australia. They may be classed under three categories : (a) those obtainable by graduates as supplementary qualifications in particular subjects after special courses of study. To this group belong the post-graduate medical diplomas already mentioned and also certain Diplomas in Education ; (b) Diplomas obtainable by non-graduates after shorter or less comprehensive courses of study than those required for a University degree covering the same subject. This group includes certain Diplomas in Commerce, Public Administration, Agriculture, Engineering, and Music ; (c) Diplomas in subjects, usually of limited range, for which no special University degree is available, *e.g.* Journalism, Pharmacy and Anthropology.

**EVENING LECTURES.** Full University courses of evening lectures in Arts, and in some cases in Science, Commerce and Law, subjects are provided by the Universities of Adelaide, Melbourne, Sydney, Queensland, and Western Australia to enable a degree in those Faculties to be obtained by persons whose occupations preclude their attendance at the University during the day. In Tasmania a number of lectures are given between 5 P.M. and 8 P.M. In Queensland the evening classes, generally of one hour duration, are held between 8 P.M. and 9 P.M.

**EXTERNAL STUDENTS.** Under the Regulations of the Universities of Melbourne, Queensland, and Western Australia attendance at lectures is not compulsory except in specified subjects. (These naturally include most scientific subjects which require laboratory facilities.) It is therefore possible, though not common, to obtain an Arts degree as a purely external student. In Western Australia correspondence classes for the benefit of external students are carried on by the University.

In the Universities of Adelaide, Sydney, and Tasmania exemption from some of the lectures of a course may be granted in special cases in which reasonable cause is shown.

In all the Universities there is provision for the recognition, for degree purposes, of various courses of instruction in affiliated institutions such as Technical Schools and Colleges.

**UNIVERSITY EXTENSION LECTURES** were instituted at Sydney Univ. in 1886 and at Melbourne in 1891. In 1913 Workers' Educational Associations were formed in all the States to give effect to a movement for bringing the Univs. into closer relationship with the masses of the people. The movement was fostered by State grants and grew rapidly. Each Univ. co-operates with the W.E.A. in the formation of a joint

committee, which appoints tutors and supervises the work with the help of a Univ. officer—the Director of Tutorial classes. A federal W.E.A. for Australia has its central office in Melbourne. The total number of students throughout Australia is about 6000, the greater number taking three-year courses. In addition to these courses a great many preparatory classes, study circles and summer schools are organized by the Assocn., numerous courses of public lectures are delivered, educational conferences promoted, and an extensive book service is carried on. A correspondence study department has been inaugurated in connexion with the W.E.A. activities in Queensland. In Western Australia provision has been made for extension lectures in Perth and suburbs and in country centres.

**FREE PASSAGES TO EUROPE.** The following free first-class passages are granted annually to Australian and New Zealand Univs. for graduates proceeding to Europe to continue their studies: Adelaide, 3; Melb., 4; Queensland, 3; Syd., 4; Tasm., 2; W. Aust., 3; N.Z., 4; available by any of the following Lines: Aberdeen, Blue Funnel, Orient, P. & O., and, for N.Z. graduates only, N.Z. Shipping and Shaw, Savill & Albion.

#### CONFERENCE

After a conference held at Sydney in May 1920 the Australian Univs. established a Standing Advisory Committee to deal with matters of common interest. The present headquarters of the Committee, now known as the Australian Vice-Chancellors' Committee, are Melbourne University. The Vice-Chancellor of Melbourne Univ. acts as Chairman of the Committee, the secretary being Mr. J. F. Foster, M.A., LL.M. The Committee now meets twice a year (usually in each February and August). At intervals of two or three years a general Universities Conference is also held. The Conference which took place in Adelaide in February 1937 was attended by a New Zealand delegation as well as by about seventy representatives of the Australian Universities. The following were amongst the topics discussed: Universities and Life; Problems of the English-Speaking University World; Residential Colleges, Student Advisers; Appointments Boards; Adult Education; the Commonwealth Government's grant of £30,000 p.a. to the Universities for research. The published Proceedings of the Conference were edited by the Librarian of the University of Adelaide.

**STATISTICS** of University teachers, students, and finance are published annually by the Commonwealth Bureau of Census and Statistics in the official Year-Book.

# UNIVERSITY OF ADELAIDE

Founded 1874

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir G. J. R. MURRAY, K.C.M.G., B.A., LL.M.,  
Lieut.-Governor and Chief Justice.

VICE-CHANCELLOR—Sir WILLIAM MITCHELL, K.C.M.G., M.A.

REGISTRAR—F. W. EARDLEY, B.A.

LIBRARIAN—W. A. COWAN, M.A. N.Z., B.A. Lond.

## TEACHING STAFF

### *Accountancy*

Mills, E. W., A.U.A., F.C.A. Aust.  
Lectr.

3 Tutors.

### *Agriculture*, v. also *infra* Waite Agric. Research Inst.

Richardson, A. E. V., D.Sc. Melb.,  
M.A. Waite Prof.

Prescott, J. A., M.Sc. Manc., D.Sc.  
(Agric. Chem.) Waite Prof.

### *Animal Products*, v. *infra* Animal Products Research Foundation

### *Anatomy*, v. also Med.—Regl. & Surg. A.

Goldby, F., M.A., M.D. Camb.  
Elder Prof.

Mead, C. S., B.A., M.B., B.S.  
Lectr.

3 Hon. Demrs.

### *Biochemistry*

Mitchell, M. L., M.Sc. Camb. Prof.  
Demr.

.....

### *Botany* [Prof.

Wood, J. G., Ph.D. Camb., D.Sc.

Black, J. M. (Syst. B.) Hon. Lectr.

Barrien, Miss B. S., B.Sc. Demr.

Eardley, Miss C. M., B.Sc.  
Herbarium Curator.

1 Research Scholar.

### *Chemistry*

Macbeth, A. K., M.A. St. And.,  
D.Sc. Belf., F.I.C. Angas Prof.

Cooke, W. T., D.Sc. Lectr.

Pennycuik, S. W., D.Sc. (Phys. C.)  
Lectr.

Winzor, F. L., D.Sc. Asst. Lectr.

Cooke, R. G., B.Sc.  
Research Officer.

Finlayson, H. H. Demr.

1 Jun. Demr.

2 Research Scholars.

### *Classics and Comp. Philol. and Lit.*

FitzHerbert, J. A., M.A. Camb.,  
Hughes Prof.

..... Lectr.

Cowan, W. A., M.A. N.Z., B.A.  
Lond. Tutor.

### *Commerce*, v. also *Acctcy*.

Brebner, C. C., LL.B. (Coml. Law)  
Lectr.

Wynes, W. A., LL.D. (Coml. Law)  
Lectr.

Wainwright, J. W., B.A. (Public  
Admin.) Lectr.

Dawbarn, R. B., A.U.A. (Com.  
Practice) Lectr.

Newman, K. F., B.Ec., A.U.A.  
(Statistics) Lectr.

2 Tutors.



- Dentistry*, v. *infra*
- Economics*, v. also Com. Prof.  
 .....  
 La Nauze, J. A., B.A. Ox. and W. Lectr.  
 Aus.
- Education* [Lectr.  
 Schulz, A. J., Ph.D. Zür., M.A.
- Engineering*, v. also Mining Prof.  
 .....  
 Robin, R. C., M.E. (Civil) Lectr.  
 Barker, A. B., B.E., B.Sc. (Industrial) Lectr.  
 Robinson, A. J., B.C.E. Melb.  
 Testing Officer and Demr.  
 1 Demr. in Metallogr.
- Engineering, Elec.*  
 Clark, E. V., B.Sc., M.I.C.E., M.I.E. Aust. Lectr.
- English Lang. and Literature*  
 Stewart, J. I. M., M.A. Ox. Jury Prof.  
 Kirwood, A. E. M., M.A. Melb. Lectr.
- French*  
 Cornell, J. G., M.A. Senr. Lectr.  
 Crampton, Mary H. St. Cl., M.A. Asst. Lectr.
- Geography* [Lectr.  
 Fenner, C. A. E., D.Sc. Melb.
- Geology and Mineralogy*  
 Mawson, Sir Douglas, O.B.E., B.E. Syd., D.Sc., F.R.S. Prof.  
 Madigan, C. T., M.A., D.Sc. Ox., B.E. Lectr.  
 Alderman, A. R., Ph.D. Camb., M.Sc. Evg. Lectr.
- German* [Tutor.  
 Schulz, A. J., Ph.D. Zür., M.A.
- History*, v. Polit. Sci. & Hist.  
*Law*  
 Campbell, A. L., B.A., B.E. Syd. Bonython Prof.
- Pickering, A. L., LL.B. (Evidence and Procedure) Lectr.  
 .....  
 (Companies, Partnerships, Bankruptcy and Divorce.) Lectr.  
 Benham, E. W., LL.B. (Equity and Conveyancing) Lectr.  
 Kriewaldt, M. R. C., B.A., LL.B. (Property—Real and Personal) Lectr.  
 Piper, F. E., LL.B. (Private International Law) Lectr.  
 .....  
 (Mercantile Law) Lectr.  
 .....  
 prudence, including Roman L.) Lectr.
- Mathematics*  
 Wilton, J. R., M.A., Sc.D. Camb., D.Sc. Elder Prof.  
 Sanders, H. W., M.A. Camb. Lectr.  
 Statton, J. W., B.Sc. Asst. Lectr.
- Medicine*, v. *infra*
- Mining Engineering*  
 Gartrell, H. W., M.A. Col., B.A., B.Sc. Lectr.
- Music*  
 Davies, E. Harold, Mus.Doc., F.R.C.M. Elder Prof.
- Philosophy*  
 Stewart, J. McKellar, D.Phil. Edin., M.A. Hughes Prof.  
 Barbour, R. R. P., M.A. Ox. (Ethics) Lectr.  
 Davey, Constance M., Ph.D. Lond., M.A. (Psychol. and Logic) Evg. Lectr.
- Physics* [Elder Prof.  
 Grant, Kerr, M.Sc. Melb., F. Inst. P.  
 Burdon, R. S., D.Sc., F. Inst. P. Lectr.  
 Fuller, G. R., B.Sc. Asst. Lectr.  
 Iliffe, M. I. G., B.Sc. Research Officer.  
 3 Demrs., 2 Research Scholars.
- Physiology, General*, v. Biochemistry

*Political Science and History*

Portus, G. V., B.Litt. Ox., M.A.  
Syd. Prof.  
Oldham, W., Ph.D. Lond., M.A.  
(Hist.) Lectr.

*Zoology*

Johnston, T. Harvey, M.A., D.Sc.  
Syd. Prof.  
Cleland, E. R., B.Sc.  
Demr. and Research Asst.  
1 Research Scholar.

*Medicine*

(for subjects of first 3 yrs.—Anat.,  
etc., v. *supra*)

*Anæsthetics*

[Instr.  
Brown, Gilbert, M.B., Ch.B. Liv.

*Anatomy, Regional and Surgical*

Jose, I. B., M.B., M.S., F.R.C.S.  
Eng. Lectr.

*Diseases of Children, Med.*

Le Messurier, F. N., M.D., B.S.  
Clin. Lectr.

*Diseases of Children, Surg.*

Wilson, L. A., M.B., B.S., F.R.C.S.  
Edin. Clin. Lectr.

*Ear, Nose, and Throat*

Jay, H. M., M.B., B.S. Lectr.

*Forensic Medicine*

Rogers, R. S., M.D., Ch.M. Edin.,  
M.A., D.Sc. Lectr.

*Gynæcology and Obstetrics*

Wilson, T. G., M.D. Syd., F.R.C.S.  
Edin. Way Lectr.

*Tutors in Obstetrics :*

Beard, J. R. S. G., M.B., B.S.,  
F.R.C.S. Edin.  
Matters, R. F., M.D., M.S.,  
F.R.C.S. Edin., D.G.O.  
Vienna.  
Fisher, H. M., M.B., B.S., F.R.C.S.  
Edin.  
Swift, B. H., M.A., M.D. Camb.,  
F.R.C.S. Edin.

*Infectious Diseases*

Beare, F. H., M.D., M.R.C.P.  
Lond., D.P.M. Eng. Tutor.

*Materia Med. and Therap.*

Fry, H. K., D.S.O., B.Sc. Ox.,  
M.D., D.P.H. Lectr.

*Medicine*

Champion de Crespigny, C. T.,  
D.S.O., V.D., M.D., B.S.  
Melb., F.R.C.P. Lond. Lectr.  
Hone, F. R., B.Sc., M.D. Tutor.  
Hetzl, K. S., M.D., M.R.C.P.  
Lond. Tutor.

*Medicine, Clinical**Lectrs. :*

Ray, W., B.Sc. Ox., M.B., B.S.  
Burston, S. R., M.B., B.S. Melb.,  
M.R.C.P. Edin.

*Medicine, Psychol.*

Birch, H. M., M.R.C.S., L.R.C.P.,  
D.P.M. Lectr.

*Ophthalmic Surg.*

..... Gosse Lectr.

*Pathology*

[Marks Prof.

Cleland, J. B., M.D., Ch.M. Syd.  
Platt, A. E., M.B., B.S., D.T.M.,  
D.T.H. Syd., Dip. Bact.  
Lond. (Bact.) Lectr.  
Sangster, C. B., M.B., B.S.,  
M.R.C.P. Lond. Demr.  
1 Hon. Demr.

*Pharmacy v. infra**Physiol., Human, and Pharmacol.*

Hicks, Sir C. Stanton, M.Sc., M.B.,  
Ch.B. N.Z., Ph.D. Camb.,  
M.D., F.I.C. Lond., F.C.S.  
Lond. Prof.  
O'Connor, W. J., M.B., B.S.  
Asst. Lectr. and Demr.  
1 Hon. Demr.

*Public Health & Preventive Med.*

Hone, F. S., B.A., M.B., B.S. Lectr

*Radiology*

Nott, H. C., M.B., B.S., D.M.R.E.  
Camb. Tutor.

*Surgery*

Jose, I. B., M.B., M.S., F.R.C.S.  
Eng. Director.

## Tutors :

Close, W. J. W., M.B., M.S.,  
F.R.C.S. Edin.

Hamilton, I. A., M.B., B.S.,  
F.R.C.S. Eng.

Hobbs, A. F., M.B., B.S., F.R.C.S.  
Eng.

Hughes, J. E., M.B., B.S.

Lendon, A. H., M.B., B.S.,  
F.R.C.S. Eng.

*Surgery, Clinical*

## Associate Lecturers :

Lindon, L. C. E., M.B., M.S.,  
F.R.C.S. Eng.

Messent, P. S., M.B., M.S.

*Surgery, Operative.*

Newland, Sir Henry S., M.B., M.S.,  
F.R.C.S. Eng. Lectr.

## Clinical Teachers :

The Staff of the Adelaide and of  
the Children's Hospls.

**Dentistry**

## Lectrs. :

Edwards, H. T. J., D.D.Sc. (Pros-  
thetic D., Crown and Bridge  
Wk., Ethics, Econ. and D.  
Jurispr.).

Laughton, R. A. L., A.S.A.S.M.  
(D. Metal.).

Eustace, J. L., B.D.S. (D. Mat.  
Med. and Therap.).

Moore, A. P. R., D.D.Sc. (D. Surg.  
and Path.).

Messent, P. S., M.B., M.S. (Surg.).

Southwood, A. R., M.D., M.S.,  
M.R.C.P. Lond. (Med.).

O'Donnell, J. A., D.D.Sc. (Opera-  
tive D.).

Begg, P. R., D.D.Sc. Melb. (Ortho-  
dontics) and Demr.

Brown, Gilbert, M.B., Ch.B. Liv.  
(Anæsthetics).

Campbell, T. D., D.D.Sc. (D. Anat.  
and Oral Surg.).

Mead, C. S., B.A., M.B., B.S.  
(Anat.).

Maddern, C. B., D.D.Sc. (Prophy-  
laxis and Oral Hy.).

## Demrs. :

Hannon, T. D., B.D.S.

(Operative Technics).

Brougham, L. A. M. (Prosthetic  
Technics).

Joyner, M. S., B.D.S. (Crown and  
Bridge Wk.).

Lawrence, G. O., B.D.Sc. Melb.  
(Prosthetic D.) Instr.

**Pharmacy**

Lipsham, E. F., Ph.C.

(Mat. Med., Pharm. and  
Disp.) Lectr.

Walter, O. H., F.C.A. Aust.  
(For. and Com. Pharm.)  
Lectr.

**Waite Agricultural Research  
Institute**

Richardson, A. E. V., D.Sc. Melb.,  
M.A. Waite Prof. & Director

Prescott, J. A., M.Sc. Manc., D.Sc.  
(Agr. Chem.) Waite Prof.

## Entomologists :

Davidson, J., D.Sc. Liv., F.E.S.  
Head of Dept.

Swan, D. C., M.Sc. Asst.

Andrewartha, H. G., M.Ag.Sc.  
Melb. Asst.

## Plant Pathologists :

Adam, D. B., B.Ag.Sc. Melb.

Colquhoun, T. T., M.Sc. Melb. Asst.

## Plant Physiologists :

Petrie, A. H. K., M.Sc. Melb.,  
Ph.D. Camb.

Williams, R. F., M.Sc. Asst.

## Agronomists :

Trumble, H. C., M.Ag.Sc. Melb.

- Wark, D. C., M.Ag.Sc. Melb. Asst.  
 Smith, C. A. N., B.Ag.Sc. Asst.  
 Chemists :  
 Piper, C. S., M.Sc.  
 Best, R. J., M.Sc.  
 Scott, A. E., M.Sc. Asst.  
 Gallus, H. P. C., M.Sc. Asst.  
 Plant Geneticist :  
 Phipps, I. F., B.Ag.Sc., M.Sc.,  
 Ph.D. Corn.  
 Systematic Botanist :  
 Clarke, G. H. F., B.Sc. Syd.  
 Agrostologists :  
 Davies, J. G., B.Sc., Ph.D.  
 Cornish, E. A., B.Ag.Sc. Asst.  
 Codrington, A. H. Hon. Wool Instr.  
 Pike, K. A. Field Officer.  
 1 Field Asst., 6 Tech. Assts., 6  
 Lab. Attendants.  
 Officers of the Council for Sci.  
 and Indust. Research :  
 Taylor, J. K., B.A., M.Sc.  
 Soil Survey Officer.  
 Donald, C. M., B.Sc.  
 Agrostologist.  
 Soil Chemists :  
 Hosking, J. S., B.Sc.
- Walkley, A., B.A., B.Sc., Ph.D.  
 Peirce, A. W., B.Sc.  
 Animal Nutrition Officer.  
 Asst. Soil Surveyors :  
 Marshall, T. J., M.Ag.Sc.  
 Hubble, G. D., B.Ag.Sc.  
 Hooper, P. D.  
 Baldwin, J. G.  
 Crocker, R. L., B.Sc.  
 Butler, B. E., B.Agric. W. Aust.  
 Analyst :  
 Shapter, R. E.
- Animal Products Research  
 Foundation  
 Hicks, Sir Cedric Stanton, M.Sc.,  
 M.B., Ch.B. N.Z., Ph.D.  
 Camb., M.D., F.I.C. Lond.,  
 F.C.S. Lond.  
 Chairman, Advisory Bd.  
 Dawbarn, Miss M.C., M.Sc.  
 (Research Chemist).
- Tutorial Classes**  
 Biaggini, E. G., M.A., Tutor in  
 Charge, assisted by 13 tutors  
 and 7 study circle leaders.

## ASSOCIATED OR AFFILIATED INSTITUTIONS

**RESIDENTIAL :** ST. MARK'S COLLEGE, under management of Church of England, but open to men of all denominations. Opened for students in March 1925. Master : A. Grenfell Price, C.M.G., D.Litt., Dip. in Ed. Ox.

**S. AUSTRALIAN SCHOOL OF MINES AND INDUSTRIES.** President, Hon. Sir L. Bonython. Unites with the Univ. in providing courses and exams. in Archit., Mining, Metall., and Engin. The Chancellor is Chairman of the Joint Board.

**ROSEWORTHY AGRICULTURAL COLLEGE.** Affiliated for parts of the B.Ag.Sc. course for Agric. students.

**TEACHING HOSPITALS ASSOCIATED WITH MEDICAL SCHOOL.** Adelaide General Hospital, 480 beds ; Queen's Home (Maternity), 160 beds ; Adelaide Children's Hospital, 120 beds ; Bedford Park Sanatorium ; "Mareeba" Babies' Hospital ; Northfield Cancer and Consumptive Home ; Metropolitan Infectious Diseases Hospital.

## GENERAL INFORMATION

The University was established by Act of the Provincial Legislature in 1874 with endowments of £20,000 each from Sir W. W. Hughes and Sir Thomas Elder and a land grant of 50,000 acres (subsequently repurchased by Govt. for £40,000), as well as a site of 5 acres in the city. The original site was increased to 8 acres in 1920, to 14 acres in 1927, and in 1929 an addnl. 13 acres adjoining were vested in the Univ. The Govt. also provides an annual subsidy of 5 per cent on endowments; the subsidy is limited to £30,000. In 1911 the State Parliament sanctioned an addnl. annual grant, and took power to appoint five addnl. members of the Council, which, until then, consisted of 20 elected by the Senate. The grants have been increased by the State Parliament from time to time and now amount to £41,600, excluding a grant of £14,500 to the Waite Agric. Research Inst.

**ENDOWMENTS.** In addition to the private endowments mentioned above the Univ. has received the following benefactions: Sir T. Elder, £75,000 in 1897; the Hon. J. H. Angas, £10,000; Mr. R. Barr Smith and the members of his family, £20,000 for the Library, and Mr. T. E. Barr Smith, £34,000 for a Library building. Mr. Peter Waite bequeathed extensive estates, including a mansion and approximately £55,000; Mrs. Jane Marks, £30,000; Mrs. A. M. Simpson and Miss A. F. Keith Sheridan, £20,000; Mrs. Elizabeth Macmeikan, residuary estate at present valued at £16,099; Ronald Lindsay Johnson, city land valued at £12,000. The Hon. Sir Langdon Bonython has provided sums amounting to £52,329 for a Great Hall, and £20,000 for the Chair of Law. The family of the late John Darling has provided £25,000 for buildings; Mrs. G. A. Jury, £12,000 for a Chair of English Literature; Sir Joseph Symon, £9500 for the Lady Symon building, the women's portion of the University Union, and Sir George Murray £10,000 for the men's portion; Sir John Melrose, £10,000 for the Chemical Laboratory at the Waite Institute. Mrs. R. F. Mortlock and J. L. Mortlock, £25,000 for research in soil erosion and the regeneration of pastures; Miss M. T. Murray bequeathed the residue of her estate, £45,000 (estimate) for general purposes, and Edward Neale, £27,785 for medical research. In 1936 Miss Edith Bonython, Norman Darling and Mr. T. E. Barr Smith each contributed £5000 towards the building and equipping of an Institute of Medical Science. The total value of the endowments is £770,932 and the income in 1936 was £115,307.

**LIBRARY.** Over 107,000 volumes. **LABORATORIES,** Anat., Bio-Chem., Botany, Chem., Geol., Histol., Pathol., Physics, Physiol., Pharmacol., and Zool. The Univ. includes the *Elder Conservatorium of Music*, which has a staff of 18; it also controls the work of the Observatory and appoints representatives on the Board of Management of the Public Library, Museum, and Art Gallery.

**SPECIAL RESEARCH DEPARTMENTS.** (1) The Waite Agricultural Research Institute, established at Glen Osmond for the purpose of furthering the cause of education and research in Agriculture and allied subjects (*see* App. III. B. 2). (2) The Animal Nutrition Institute within the University Grounds (*see* App. III. B. 2). (3) Field laboratory at Koonamore for investigation of plant regeneration in arid areas. (4) The Sheridan Medical Research Foundation for the support of medical research. In 1922 Mrs. A. M. Simpson and Miss A. F. Keith Sheridan bequeathed property (value, £20,000) for the establishment of this foundation. (5) The Animal Products Research Foundation, which conducts investigations in regard to the problems of animal nutrition, *see* Staff List *supra*. (6) The Board of Anthropological Research engaged

in Anthropological investigations concerning the aboriginals of South Australia. (7) The Anti-Cancer Campaign Committee directs research into the cause and cure of cancer. (8) Institute of Medical Science at the Adelaide Hospital.

**COLLECTIONS OF INTEREST TO SPECIALIST SCHOLARS.** Collection of Australian endoparasites. Prof. J. B. Cleland's collection of the higher Australian fungi (Basidiomycetes), by far the largest of its kind, is available for study by mycologists and forest pathologists. Collection of representative specimens from all the Australian opal fields. Anthropological collection of Australian skeletons. Collections of marsupial material.

**FACULTIES.** Arts, Science, Law, Medicine, Dentistry, Music, Agric. Science, Applied Science (including Staff of S. Aus. School of Mines and Industries).

**DEGREES.** Obtainable after 3 yrs.' course, B.A., B.Sc., B.Ec., Mus.Bac. ; 4 yrs.', LL.B., B.E., B.Ag.Sc. ; 5 yrs.', B.D.S. ; 6 yrs.', M.B., B.S.

**HIGHER DEGREES.** Open to bachelors of 2 yrs.' standing, M.A., M.Sc., M.Ag.Sc., M.E., LL.M. ; 3 yrs.', M.D., M.S., D.D.Sc., Mus.Doc. ; 4 yrs.', D.Sc., LL.D., D.Litt.

**DIPLOMAS.** Applied Science (Mining, Metall., or Engin.—Civ., Elec., Mech., Archit.), Pharmacy, 4 yrs.' course ; Commerce and Public Administration evening courses ; Education (post-graduate) ; Music, 3 yrs.'

A "Final Certificate in Law" for admission as a practitioner in the Supreme Court is obtainable by articulated clerks on a curriculum less extensive than that for the LL.B.

The Univ. conducts **PUBLIC EXAMNS.** of various grades, irrespective of those for its own degrees, etc., namely, in General Education—Intermediate, Leaving, and Leaving Honours ; in Commercial Education—Intermediate and Leaving ; in Music.

**FEES.** Matriculation, £1 : 1s. ; *ad eundem statum*, £2 : 2s. ; Admission to Degrees : Arts, Economics, Science, M.E., LL.M., £5 : 5s. ; LL.D., M.D., M.S., D.D.Sc., Mus.Doc., D.Sc., D.Litt., £10 : 10s. ; LL.B., £7 : 7s. ; B.E., £3 : 3s. ; Mus.Bac., £4 : 4s. ; Diplomas in Educ., Public Admin., Commerce, Music, Pharmacy, £2 : 2s. Degree Courses in Arts about £65 ; Economics about £57 ; Science about £125 ; Engineering about £120 ; Law about £90 ; Medical, 6 years, £240 (excluding Hospital, £56 : 14s., and Midwifery Clinics, £5 : 5s.) ; Dental, 5 years, £250 ; Music, £53 : 11s. ; Tuition Conservatorium, £14 : 14s. minimum.

**SCHOLARSHIPS**, etc., for graduates. Angas Engineering, £200 p.a. for 2 yrs., not open to graduates of other Univs. ; several smaller.

**RESIDENCE.** St. Mark's Residential College was incorporated in the Univ. in 1925.

**STUDENTS' ADVISER.** R. R. P. Barbour, M.A.

**ADULT EDUCATION.** Tutorial Classes in English Lang. and Lit., English Lang. and Lit. (Preparatory), English Lit., first year, French Lang. and Lit., German Lang. and Lit., second year, Japanese Conversation and Italian Lang. Lecture Classes in English Lit., Econ., Mod. Hist. (2), Philos., Psychol. (2), Physics, Chem. and Polit. Sci. Study Circles in French (advanced), Econ., Social Philos., Bot., Geol., English Lit. (3). Series of lectures are also given at country centres.

**MEDICAL SCIENCES CLUB.** Hon. Sec.—Dr. F. R. Hone, North Terrace, Adelaide.

UNIVERSITY UNION. Secretary—K. T. Hamilton, University.

ECONOMIC SOCIETY OF AUST. AND N.Z. (S.A. Branch.) Hon. Sec.—V. A. Edgeloe, The University.

ENGLISH ASSOCIATION. (S.A. Branch.) Hon. Sec.—A. G. Paull, M.A., B.Sc.

CLASSICAL ASSOCIATION OF S.A. Hon. Sec.—W. A. Cowan, University.

PUBLICATIONS. *Calendar* (Feb.), 3s. 6d. *Australian Journal of Experimental Biology and Medical Science*, quarterly, £1: 1s. p.a. *Fisher Lecture*, 1936. *Report of the Waste Agricultural Research Institute*, 1933-36.

## THE YEARS 1936, 1937

BENEFACTIONS. Miss M. T. Murray bequeathed the residue of her estate (estimated £45,000) for general purposes. The Hon Sir George Murray, £10,000 to complete the Men's Union Building. Miss Lily and Miss Eva Waite, £2000 for the erection of a footbridge across the Torrens. Mrs. R. F. Mortlock and her son J. T. Mortlock, £25,000 to establish the Ranson Mortlock Trust for research in soil erosion and regeneration of pastures. Miss Edith Bonython, Norman Darling and T. E. Barr Smith, each £5000 towards the building and equipping of an Institute of Medical Science.

NEW BUILDINGS. Ranson Mortlock Laboratory at the Waite Agricultural Institute and the George Murray Building for the Men's Union, in course of erection. Bridge across the Torrens connecting the sports oval with the University grounds, completed.

CHANGES IN REGULATIONS. Regulations for degree of B.A. amended to provide for recognition of Economics III. Regulations for degree of B.Sc. amended to provide for inclusion of Bacteriol. and repeal of special course in Physiol. and Psychol. Regulations for degree of D.Sc. amended to enable Bachelors of Agricultural Science to proceed to this degree.

STAFF ABSENT ABROAD FOR RESEARCH, ETC. Prof. A. L. Campbell and Prof. J. G. Wood granted a year's leave of absence, the former to study legal education in Europe, the latter to carry out botanical investigations in Gt. Britain and at the Univ. of Leyden. Mr. A. E. M. Kirwood, Lecturer in English, granted leave of absence for 1937 during which he occupied the Chair of English Literature at the Univ. of Stellenbosch. Dr. A. H. K. Petrie, Plant Physiologist at the Waite Institute, study leave for one year. Dr. C. A. E. Fenner, Lecturer in Geography, received a Rockefeller Fellowship.

RESIGNATION. Prof. H. J. Wilkinson (Anat.), on apptmt. as Dean of the School of Medicine in the Univ. of Queensland.

RETIREMENTS. Prof. Sir Robert Chapman, Prof. of Engineering since 1907; Mr. D. H. Hollidge, Lectr. in Classics since 1927; and Mr. J. Crampton, Lectr. in French since 1917.

STUDENTS. Full-time, 946; graduates, 142. Part-time, 1299, including 262 Elder Conservatorium of Music.

DEGREES (1936). B.A., 30; M.A., 3; B.Ec., 2; LL.B., 15; B.Sc., 19; M.Sc., 3; D.Sc., 1; B.Ag.Sc., 2; M.Ag.Sc., 1; B.E., 13; M.E., 1; M.B., B.S., 15; M.D., 3; M.S., 1; B.D.S., 1; Mus.Bac., 1; Dip. in Applied Sci., 14; Dip. in Educ., 4; Dip. in Com., 13; Dip. in Public Admin., 5; Dip. in Music, 2; Dip. in Pharmacy, 14; Final Certif. in Law, 6.

# UNIVERSITY OF MELBOURNE

Founded 1853

VISITOR—H.E. THE GOVERNOR OF VICTORIA.

CHANCELLOR—Lt.-Col. Sir JAMES WILLIAM BARRETT, K.B.E., C.B.,  
C.M.G., M.D., M.S., F.R.C.S., R.A.M.C.

DEPUTY-CHANCELLOR—Rt. Hon. JOHN GREIG LATHAM, P.C., G.C.M.G.,  
K.C., M.A., LL.B., M.H.R.

VICE-CHANCELLOR—R. E. PRIESTLEY, M.C., M.A., Agr. Dip. Camb.,  
D.Sc. (to 30.6.38).

REGISTRAR—A. W. GREIG, J.P.

LIBRARIAN—LEIGH SCOTT, M.A.

## TEACHING STAFF

<i>Accountancy</i> , v. Com.	Good, Eileen M. F., Dip. Arch.
<i>Agriculture</i> , v. <i>infra</i>	Sr. Demr.
<i>Anatomy</i>	Schmerberg, R., Dip. Arch. Des.
..... Prof.	Demr.
Rowlands, E. A., M.B., B.S.	Ellis, R. O. Instr.
(Histol.) Sr. Lectr.	Dalton, A. O., Dip. Arch. Des.
Sunderland, S., M.B., B.S.	Instr.
Sr. Lectr.	Hopkins, R. E., B.Arch. Instr.
Russell, K. F., M.B., B.S.	<i>Bacteriology</i> , v. Med.
Stewart Lectr.	<i>Bio-Chemistry</i> , v. Physiology
Coates, A. E., M.D., M.S. (Surg.	<i>Botany &amp; Plant Physiology</i>
A.) Ind. Lectr.	..... Prof.
Hallam, K. H., M.B., B.S., D.M.R.	McLennan, Ethel I., D.Sc. (Bot.
& E. (Radiological A.)	and Plant Pathol.)
Hon. Demr.	Assoc. Prof.
<i>Anthropology</i>	Patton, R. T., D.Sc., M.F. Harv.,
Thomson, D. F. F., D.Sc.	D.I.C. Lond. (Bot. and Agric.
Research Fellow.	Bot.) Sr. Lectr.
<i>Architecture</i>	Cookson, Isabel C., D.Sc. Lectr.
Gawler, J. S., F.R.V.I.A. Lectr.	Grieve, B. J., M.Sc., Ph.D. Lond.
Sutherland, G. J., Dip. Arch.	Lectr.
Lectr.	Fisher, Eileen E., M.Sc. Sr. Demr.
Irwin, L., A.R.I.B.A., F.R.A.I.A.	Fawcett, Stella G. M., M.Sc.
Dir. of Atelier.	Demr.
Scarborough, J. F. D.	<i>Chemistry</i> , v. also Physiol.
Asst. Lectr. & Demr.	Hartung, E. J., D.Sc. Prof.



Davies, W., D.Sc. Manc. and  
Melb., D.Phil. Ox. (Organic  
C.) Assoc. Prof.  
Cavanagh, B., M.A. Ox., D.Sc.  
Lond. (Gen. Phys. and Inor-  
ganic C.) Sr. Lectr.  
Anderson, J. S., Ph.D., A.R.C.S.,  
D.I.C. (Gen. and Inorganic C.)  
Sr. Lectr.  
Ampt, G. A., B.Sc. Sr. Lectr.  
Heymann, E., Ph.D. Frankfurt  
Carnegie Lectr.  
Anderson, V. G. (Principles of  
Applied C.) Lectr.  
Hatt, H. H., B.Sc., Ph.D. Lond.,  
A.I.C. (Org. C.) Lectr.  
Sugden, Ruth, M.Sc. Sr. Demr.  
Scott, Margaret E., B.Sc.  
Sr. Demr.  
..... Demr.

#### *Classical Philology*

Scutt, C. A., M.A. Camb. and  
Melb. Prof.  
Kerry, W., M.A. Camb. and Melb.  
Sr. Lectr.  
O'Brien, J. L., B.A. Camb. and  
Syd. Lectr.  
Hunt, H. A. K., B.A. Syd. and  
Ox., Dip.Ed. Lectr.

#### *Commerce*

Copland, D. B., C.M.G., M.A., D.Sc.  
N.Z., Litt.D. Prof.  
Wood, G. L., M.A. Adel., Litt.D.  
(Econ. and Econ. Geog.)  
Assoc. Prof.  
..... (Econ.) Sr. Lectr.  
Burton, H., B.A. Ox. and Q'nd.  
(Econ. Hist.) Sr. Lectr.

#### *Lecturers :*

Foenander, O. de R., LL.M.  
(Econ.).  
Fitzgerald, A. A., B.Com., F.I.C.A.  
(Acctcy.).  
Norris, J. G., LL.M. (Law).  
Whitlam, A. G., B.A., B.Com.  
(Marketing).

Anderson, G., M.A., LL.M.,  
M.Com. (Indust. Relations &  
Indust. & Financial Organ-  
ization).  
Schumer, L. A., A.I.C.A., F.A.I.S.,  
F.C.A.A. (Cost Acctcy.).  
Anderson, M. V., B.Com. (Cost  
Acctcy.).  
Aird, J. A., B.Agr.Sc., Dip.Com.  
(Public Admin.).  
Fitzgerald, G. E., B.A., B.Com.  
(Acctcy.) Asst. Lectr.  
Eddy, J. W. M., B.Com.  
(Indust. & Financial Or-  
ganization) Asst. Lectr.  
Goldberg, L., B.Com.  
(Accountancy) Tutor.  
Weller, G. A., B.Com.  
(Econ., Indust. & Finan-  
cial Organization)  
Tutor.  
Williams, W. K., B.A. (Statistical  
Method) Tutor.  
Nicholls, Annie, M.Sc.  
(Econ. Geog.) Tutor.  
Eggleston, R. M., LL.B.  
(Law) Tutor.  
*Dentistry*, v. Affiliated Colls.  
*Dutch* [Instr.  
Lodewyckx, A., M.A., Litt.D.

#### *Economics*, v. also Com.

Giblin, L. F., D.S.O., M.C., M.A.  
Camb. and Melb.  
Ritchie Prof.  
..... Research Fellow.

#### *Education*

Browne, G. S., M.A. Ox. and Melb.,  
Dip. Ed. Ox., Lond. Prof.  
Sharman, M. S., M.A., M.Sc.  
Sr. Lectr.

#### *Lecturers :*

Frederick, W. H., M.A., Dip.Ed.  
Marshall, Isabella D., M.A. Ox.  
and Dub., Dip.Ed. Camb.  
Radford, P., B.A.  
Norris, F. K., M.D., B.S.  
(Hygiene).

Hoy, Alice, M.A., LL.B., Dip.Ed.  
 Wilson, H. W., O.B.E., M.C., M.Sc.  
 Bachelard, P. M., Ph.D. Köln.  
 Benjamin, J. A.  
 Crosthwaite, R. T.  
 Ramsay, A. H., B.Sc., Dip.Ed.  
 Webb, Irene.  
 McConkey, Sylvia.  
 Duras, F., Dr.Med. Freiburg (Phys.  
 Edn.) Carnegie Lectr.

*Engineering*, v. also Agric. *infra*

Burstall, A. F., Ph.D. Camb.,  
 M.Sc. Birm., D.Sc. Prof.  
 Brown, E. B., D.Sc., A.C.G.I.  
 (Elec. E.) Assoc. Prof.  
 Sexton, C. W. N., M.C.E.,  
 M.Inst.C.E.  
 (Civ. E.) Sr. Lectr.  
 Darwin, E. R. H., B.Sc. Adel., L.S.  
 (Surveying) Sr. Lectr.  
 Rennie, E. J. C., M.E.  
 (Mech. Eng. & Aerodyn.)  
 Sr. Lectr.  
 Galbraith, L., B.C.E.  
 (Civ. E.) Lectr.  
 Mirfield, T. N., B.Mech.E., B.E.E.  
 (Mech. Eng.) Lectr.  
 Sublet, F. G. A., M.E.E.,  
 B.Mech.E.  
 (Strength and Elasticity  
 of Matls. and Elec.  
 Des.) Lectr.  
 Loder, L. F., M.C.E. (Roads)  
 Lectr.  
 Summons, W. E., M.D., B.S.,  
 D.P.H. (Ambulance) Lectr.  
 Woods, N. W. Research Officer.  
 Costigan, M. M., B.C.E.  
 (Civ. Eng.) Sr. Demr.  
 McLean, D. C. A. G., B.E.E.  
 (Elec. Eng.) Sr. Demr.  
 Muller, D. O., B.C.E.  
 (Strength and Elasticity  
 of Matls.) Sr. Demr.  
 Martin, A. W., B.Sc. (Elec. Eng.)  
 Demr.  
 Bidgway, C. V. (Mech. Eng.)  
 Demr.  
 Mackenzie, D. (Machining) Demr.

*English Lang. and Lit.*

Cowling, G. H., M.A. Leeds and  
 Melb. Prof.  
 Derham, Enid, M.A. Sr. Lectr.  
 Seccombe, H. G., B.Litt. Ox., B.A.  
 Sr. Lectr.  
 Tutors :  
 Jennings, Vera C., M.A.  
 McIntyre, K. G., B.A.  
 Fitzpatrick, Kathleen E., B.A.

*French*

Chisholm, A. R., B.A. Syd. and  
 Melb., O.A. Assoc. Prof.  
 Karagheusian, V. N. T. Sr. Lectr.  
 Cornell, J. G., M.A., Dip.Ed., L.  
 ès L. Paris Lectr.  
 Callil, F. A. L., M.A. Tutor.  
 Coverlid, Dorothea R., M.A.  
 Tutor (Science Students).

*Geology and Mineralogy* [Prof.

Skeats, E. W., D.Sc. Lond. and  
 Melb., A.R.C.S. Lond., F.G.S.  
 Summers, H. St. J., D.Sc.  
 Assoc. Prof.  
 Singleton, F. A., M.Sc. (Palæontol.  
 and Agric. G.) Sr. Lectr.  
 Hills, E. S., Ph.D. Lond., M.Sc.  
 Lectr.  
 Hauser, H. B., M.Sc. Sr. Demr.  
 Mann, J. S. Demr.

*German*

Lodewyckx, A., M.A. Cape and  
 Melb., Litt.D. Ghent  
 Assoc. Prof.  
 Egremont, H. G. Lectr.  
 Coverlid, Dorothea R., M.A.  
 Tutor (Science Students).

*Histology*, v. Anatomy

*History*

Crawford, R. M., B.A. Syd., M.A.  
 Prof.  
 Webb, Jessie S. W., M.A. Sr. Lectr.  
 Foenander, O. de R., LL.M.  
 Evening Lectr.  
 Phillips, P. D., M.A., LL.B. (Inter-  
 nat. Relations) Lectr

Burton, H., B.A. Ox., Q'ld. (Con-  
stit. Hist.) Lectr.

**Tutors :**

Mulvany, J. F., M.A., LL.B.  
Harper, N. D., M.A., Dip.Ed.

*Italian*

Schiassi, O., LL.D. Bologna Instr.

*Japanese*

Inagaki, M. Instr.

*Law*

Bailey, K. H., M.A., B.C.L. Ox.,  
LL.M. (Public Law) Prof.  
Paton, G. W., B.A., B.C.L. Ox.,  
M.A. (Jurispr.) Prof.

**Lecturers :**

Smith, T. W., M.A., LL.M. (Con-  
tracts, etc.).  
Adam, A. D. G., B.A., LL.B.  
(Land, etc.).  
Coppel, E. G., LL.D. (Procedure).  
Dean, A., LL.M. (Equity).  
Phillips, P. D., M.A., LL.B.  
(Private Internat. L. and  
Internat. Rel.).  
Sholl, R. R., M.A. Ox. and Melb.  
(L. affecting Journalism).  
Coghill, E. H., LL.M. Tutor.  
Eggleston, R. M., LL.B. Tutor.

*Mathematics, Pure and Mixed*

Cherry, T. M., Ph.D. Camb., B.A.  
Prof.  
Gundersen, G., B.Sc. Sr. Lectr.  
Belz, M. H., M.Sc. Camb. Sr. Lectr.  
Urquhart, M. L., B.Sc. Tas. Lectr.  
Lavater, Eleanor, B.A. W.A.,  
B.Sc. Camb. Tutor.  
Miller, A. R., B.A., B.Sc. Tutor.

*Medicine, v. infra*

*Metallurgy*

Greenwood, J. Neill, D.Sc. Manc.  
and Melb. Prof.  
Thompson, P. F. Sr. Lectr.  
O'Malley, G. B., B.Met.E.  
Sr. Lectr.  
Worner, H. K., M.Sc. Lectr.

Hirst, H., B.Sc. (Eng.) Lond.,  
Nat. Phil.D. Freib.  
Asst. Research Director.

*Music*

Heinze, B. T., F.R.C.M., Degré  
Sup., Schola Cantorum, Paris  
Ormond Prof.

*Natural Philosophy*

Laby, T. H., M.A., Sc.D. Camb.,  
D.Sc., F.R.S., F.Inst.P.  
Ch. of Mfrs. Prof.  
Hercus, E. O., D.Sc., F.I.P.  
Assoc. Prof.

**Sr. Lecturers :**

Rogers, J. S., M.C., B.A., M.Sc.,  
Dip.Ed., F.I.P.  
Martin, L. H., Ph.D. Camb.  
Loewe, F. (Meteorol.)  
Carnegie Lectr.  
Burhop, E. H. S., B.A., M.Sc.  
Res. Physicist.  
Bingham, R. T. W., M.Sc.  
Lectr. and Demr.  
Allen, Natalie C. B., B.Sc. N.Z.,  
M.Sc. Sr. Demr.  
Nelson, Edith A., M.A., M.Sc.  
Sr. Demr.  
Abraham, A. J. M., M.Sc. N.Z.  
Sr. Demr.  
Kannuluik, W. G., D.Sc. Demr.

*Philos., Mental & Moral*

Gibson, A. Boyce, M.A. Ox., B.A.  
Prof.  
Taylor, D., M.A. W. Aust.  
Sr. Lectr.  
Ball, W. M., M.A.  
(Polit. Phil. & Mod. Polit.  
Instns.) Sr. Lectr.  
Davies, Dorothy M., B.A.  
(Polit. Phil. & Mod. Polit.  
Instns.) Tutor.  
Atkins, G. A., M.A., M.Sc.  
Evening Lectr. and Tutor.  
Warren, Olga M., M.A. Tutor.

*Physics, v. Nat. Philos*

*Physiology*

Osborne, W. A., M.B., B.Ch. Belf.,  
D.Sc. Tüb. and Melb.,  
F.A.C.S. Prof.

Young, W. J., M.Sc. Manc., D.Sc.  
Lond. and Melb. (Bio-Chem.)  
Assoc. Prof.

Maxwell, L. A. I., M.Sc., B.Agr.Sc.,  
M.D., B.S. Sr. Lectr.

Demrs. :

Brewster, Blanche L.

Hutchinson, Margaret.

Law, Kathleen A. O., M.Sc.

Kilvington, T. B., B.Sc.

*Pub. Health*, v. Med. *infra*

*Russian*

Goode, J. S., M.E. Instr.

*Scandinavian Languages*

Lodewyckx, Mrs. A. Instr.

*Spanish*

Spiwakowsky, Erika, Ph.D. Berlin  
Instr.

*Veterinary Science*, v. *infra*

*Zoology*

Agar, W. E., M.A. Camb., D.Sc.  
Glas. and Melb., F.R.S.

Prof.

Tiegs, O. W., D.Sc. Adel.

Assoc. Prof.

Buchanan, Gwynneth V., D.Sc.

Sr. Lectr.

Drummond, F. H., B.Sc. W.A.

Sr. Demr.

Stach, L. W., B.Sc. Sc. Demr.

**Agriculture**

v. also Bot. *supra*

Wadham, S. M., M.A. Camb. and  
Melb., Agr. Dip. Camb. Prof.

Lecturers :

Talbot, R. J. de C., B.V.Sc.  
(Animal Husbandry).

Kerr, J. M. (Dairying).

Wilson, H. C. (Part I.).

Grieve, B. J., Ph.D. Lond., B.Sc.  
(Plant Pathol.).

Leeper, G. W., M.Sc. (Agr. Chem.).

Quin, D. G. (Viticulture).

McDonald, G. W. (Wool Classing).

Kendall, E. A., B.V.Sc. (Vet.  
Dietetics).

Read, F. M., M.Agr.Sc. (Hortic.  
Sc. & Practice).

Daley, O. I. C. (Dairy Technol.).

Scharp, L. R., B.Agr.Sc. (Dairy  
Technol.).

Raff, Janet W., M.Sc. (Entomol.).

Vasey, G. H., B.C.E. (Agric. Eng.).

Ballantyne, J. S., B.Agr.Sc.,  
Research Asst.

**Medicine**

(for subjects of first 2 yrs.—Anat.,  
etc., v. *supra*)

*Anæsthetics*

Kaye, G. A., M.D., B.S. Lectr.

*Bacteriology*

Woodruff, H. A., B.Sc., M.R.C.S.,  
L.R.C.P., M.R.C.V.S. Prof.  
Sr. Lectr.

Gundersen, Sara E., B.Sc., M.B.,  
B.S. Sr. Demr.

Atkinson, Nancy, M.Sc. Sr. Demr.

*Ethics, Medical*

Downes, R. M., C.M.G., V.D.,  
M.D., B.S., F.R.A.C.S.

Lectr.

*Forensic M.*

Mollison, C. H., M.B., B.S.,  
M.R.C.S. Eng. Lectr.

*Laryngology and Otology* [Lectr.

Gutteridge, E. W., V.D., M.D.,  
B.S., F.R.A.C.S. Lectr.

*Mat. Med. and Pharmacy*

Stanton, B. L., M.B., B.S. Lectr.

*Medicine*

Cowen, S. O., M.D., B.S.

Stewart Lectr.

Cox, L. B., M.D., B.S. Lectr.

Hurley, L. E., M.D., M.S. Lectr.

Newton, W. S., M.D., B.S. Lectr.

Hayden, J. G. E., M.D., B.S. Lectr.

- Medicine, Clinical, and Clin. Surg.*  
 Staffs of the Melb., Alfred, and St. Vincent's Hospls.  
*Obst. and Gynæc.*  
 Allan, R. M., M.C., M.D., Ch.B. Edin., F.R.C.S.E., F.R.A.C.S., F.C.O.G., L.M. Dublin Prof.  
 Campbell, Kate I., M.D., B.S. (Infant Welfare) Lectr.  
 Wilson, A. M., M.D., B.S., F.C.O.G. Thalia Roche Demr.  
 3 Demrs.
- Pathology*  
 MacCallum, P., M.C., M.A., M.Sc. N.Z. and Melb., M.B., Ch.B., D.P.H. Edin., M.R.C.P. Edin. Prof.  
 Wright, R. D., M.B., M.S. Sr. Lectr.  
 Cooper, E. L., M.D., B.S. Stewart Lectr.  
 Hayward, J. I., M.D., B.S., F.R.C.S. Lectr.  
 Cox, L. B., M.D., B.S., M.R.C.P. (Neurological P.) Hon. Lectr.  
 Kenny, J. J. M., M.B., B.S. Demr.
- Psychology*  
 Gunn, Prof. J. A., M.A., Ph.D. Liv., B.Sc. Lond. Lectr.
- Public Health*  
 Dale, J., O.B.E., B.Sc. (Pub. Health), M.D., Ch.B. Birm., M.R.C.S., L.R.C.P. Lectr.
- Surgery*  
 Hurley, T. E. V., C.M.G., V.D., M.D., M.S., F.R.C.S. Stewart Lectr.
- Shaw, C. G., D.S.O., V.D., M.D., B.S., F.R.C.S. Lectr.  
 Hailes, W. A., M.B., B.S., F.R.C.S. Lectr.  
 Quick, B., M.B., B.S., F.R.C.S. Lectr.  
 King, E. S. J., D.Sc., M.D., B.S. Lectr.  
 Upjohn, W. G. D., O.B.E., M.D., M.S., F.R.C.S. Lectr.
- Therapeutics*  
 Lectrs. :  
 Lawton, F. D. H. B., O.B.E., M.B., B.S., F.R.C.P.  
 Major, J. P., M.D., B.S.  
 Newing, W. J., M.D., B.S.
- Venereal Diseases*  
 Mortensen, H. N., M.B., M.S., F.R.A.C.S. Lectr.
- Veterinary Science*  
 Albiston, H. E., D.V.Sc. Dir.  
 Gorrie, C. J. R., B.V.Sc. Res. Scholar.  
 Bethell, Elaine, B.Sc. Res. Scholar.
- V. Parasitology*  
 Pullar, E. M., M.V.Sc. Lectr.
- University Extension*  
 Gunn, Prof. J. Alexander, M.A., Ph.D. Liv., B.Sc. Lond. Director.  
 24 Tutors.

**RESIDENTIAL COLLEGES**—Controlled by representatives of the Churches but open to members of all religious denominations :

**TRINITY COLLEGE** (Church of England). Warden, J. C. V. Behan, M.A., LL.D. Melb. and Ox. Dean, L. C. Wilcher, M.A. Adel., B.A. Ox. 17 other Tutors.

**ORMOND COLLEGE** (Presbyterian). Master, D. K. Picken, M.A. Camb., Glas., and Melb. ; Vice-Master, H. W. Allen, M.A. 17 other Tutors.

**QUEEN'S COLLEGE** (Methodist). Master, R. C. Johnson, M.A. Ox., D.Sc.,

Ph.D. Lond. Vice-Master, H. G. Seccombe, B.A., B.Litt. Ox. 17 other Tutors.

NEWMAN COLLEGE (R.C.). Rector, V. Rev. J. M. Murphy, S.J., M.A.; Dean, Rev. H. B. Loughnan, S.J., B.A., F.G.S., Dip.Ed. 17 Tutors (2 Resident).

UNIVERSITY WOMEN'S COLLEGE. Principal, Miss S. J. Williams, M.A.

## OTHER AFFILIATED INSTITUTION

AUSTRALIAN COLLEGE OF DENTISTRY. Principal, Prof. A. B. P. Amies, D.D.Sc., L.R.C.P., L.R.C.S. Edin., D.L.O. Other Lectrs. (excluding those on Univ. staff): C. E. Allen, D.D.Sc., L.D.S.; E. B. Nicholls, D.D.Sc., L.D.S.; H. C. Trumble, M.B., B.S., F.R.C.S.; W. J. Tuckfield, M.A.C.D., D.Sc. Chic.; C. H. Down, B.D.Sc., L.D.S.; K. T. Adamson, D.D.Sc., L.D.S.; J. M. Lewis, M.A.C.D., D.D.Sc.; E. T. T. Downie, M.D., B.S., M.R.C.P. Lond.; A. D. Craven, B.D.Sc., L.D.S.; E. A. Lucas; F. Maclure, O.B.E., M.D., B.S., F.R.C.S.

## GENERAL INFORMATION

The Univ. was founded in 1853 by Act of the Victorian Legislature. In 1923 a new University Act was passed, increasing the annual endowment for general purposes to £45,000, providing an additional grant of £8500 for Univ. Extension, a Department of Commerce, and Research, and making constitutional changes. The Council is now composed of 32 members—10 elected by graduates; representatives of the teaching staff (5), of affiliated colleges (2), undergraduates (2); 8 appointed by the Govt. (3 being members of Parliament, the others representing business interests and technical schools); 3 *ex officio*; and 2 co-opted members. The legislative functions of the old Senate were transferred to a Standing Committee which, in addition, may submit any matter it pleases for the consideration of the Council. Recognition was accorded in the Act to the Professorial Board and the Faculties. The grounds, 104 acres, include four 10-acre College sites surrounding a recreation ground of 16 acres.

LIBRARY, 100,000 vols. MUSEUMS AND LABS., Anat., Biol., Engin., Geol., Path. (15,000 specimens), Vet. LABORATORIES, Agric., Bact. (investigations undertaken for Govt. Hospitals and Med. practrs.), Chem., Dent., Metall. and Mining (with 3 head stamp battery), Physics, Physiol. VET. RESEARCH INSTITUTE. WERRIBEE RESEARCH FARM. HALL RESEARCH INSTITUTE in connexion with Melbourne Hospl.

FACULTIES. (1) Arts, (2) Education, (3) Science, (4) Law, (5) Medicine, (6) Engineering (Incl. Metall., Mining), (7) Architecture, (8) Music, (9) Dental Science, (10) Agricultural Science, (11) Veterinary Science, (12) Commerce.

Deans. (Profs.: (1) L. F. Giblin, (2) G. S. Browne, (3) H. A. Woodruff, (4) K. H. Bailey, (5) P. MacCallum, (6) A. F. Burstall, (7) T. M. Cherry, (8) B. T. Heinze, (9) A. B. P. Amies, (10) S. M. Wadham, (11) A. J. Ewart, (12) D. B. Copland.

DEGREE COURSES: 3 yrs.—B.A. (ordinary and Honours), B.Sc., B.Eng.Sc.; 4 yrs.—LL.B., Mus.Bac., B.C.E., B.M.E., B.Met.E., B.E.E., B.Mech.E., B.Agr.Sc., B.Com.; 5 yrs.—B.Arch., B.D.Sc.; 6 yrs.—M.B., B.S.

The 2nd year of the B.Agr.Sc. course is passed at Werribee Research Farm.

HIGHER DEGREES. Open to Bachelors of 1 yr.'s standing—M.Sc., M.Agr.Sc., LL.M.; 2 yrs.—B.Ed., M.Com., M.D., M.S., M.D.Sc., M.V.Sc.; 3 yrs.—M.C.E., etc., Mus.D., D.V.Sc.; 4 yrs.—D.Sc., LL.D., D.D.Sc.; 5 yrs.'

—D.Eng.; 7 yrs.—D.Litt. The M.A. is open to Bachelors of Arts (Honours) of 1 yr.'s standing and Bachelors of Arts (Ordinary) of 3 yrs.' standing. Courses of medical postgraduate study arranged by special Committee on which Univ. is represented.

**DIPLOMAS.** D.P.H., open to med. grads. of Melb. of 1 yr.'s standing and persons who have for 1 yr. been qualified for registration as med. practr. in U.K., 12 mos.; D.T.M., open to Aus. med. practr. of 1 yr.'s standing, 4 mos.; Dip.Ophth., Dip.L. and O., Dip.G. and O., Dip.T.R. and E., Dip.D.R. and D.P.M., open to med. grads. of 2 yrs.' standing, 15 mos. each. Analyt. Chem., 9 mos. following 3 yrs.' course in Chem.; Dietetics, 1 yr. following B.Sc. or B.Agr.Sc. course; Journalism, Physical Education, 2 yrs.' undergraduate study; Architecture, Arch. Design, Commerce, Music, Public Administration, 3 yrs.' undergraduate study; Agric., 4 yrs.' undergraduate study.

**FEES.** Matricn., 2 gs.; Degree, 10 gs.; Degree Courses in Arts, 3 yrs., about 72 gs.; Science, 3 yrs., 90 gs. (4th yr. £25); Agric., 4 yrs., 78 gs.; Laws, 4 yrs., about 102 gs.; Med., 6 yrs., £258 (including Hospl. Fees); Engin., 4 yrs., 120 gs.; Commerce, 4 yrs., 98 gs.; Music, 4 yrs., at conservatorium, 128 gs.

**SCHOLARSHIPS, ETC.** Aggregate annual value about £14,000. Among the more important are Research Fellowships of £500 each, Research Scholarships up to £200, and combined Research and Teaching foundations.

The Act of 1923 provided for the admission of the following free students: 15 certificated teachers of the Education Dept. *per annum*; 5 other Govt. officers *per annum*; 50 other persons *per annum*. All other certificated teachers and students of Training Colleges are admitted at half fees.

A *Students' Loan Fund* has assets exceeding £45,000.

**RESIDENCE.** The Residential Colls. (*v. supra*) accommodate over 500 resident students.

**ADULT EDUCATION.** Tutorial classes are conducted in the city and suburbs and 8 country centres.

**PUBLIC EXAMINATIONS.** School Intermediate and School Leaving are held by the Univ. annually in Dec.; the Intermediate qualifies for entry into the State Public Service; the School Leaving certif. qualifies for matricn. under certain conditions. The Univ. also arranges for the Inspection of Secondary Schools.

**PUBLICATIONS.** *Calendar* (Dec.), 5s. net, includes list of publicns. by members of staff; *Annual Examn. Papers*, in sets, 6d. each; *Students' Handbook*, 1s. 6d.; *Handbook of Pub. Examns.*, 3s. 6d.; *Conservatorium Prospectus*; *Manual of Pub. Examns. in Music*. Students' journals: *Melb. Univ. Magazine*; *Farrago* (weekly), *Speculum* (Medical), *The Margin* (Commerce).

The UNIVERSITY PRESS, founded in 1922, has published a number of important books by members of the Univ. and others embodying results of research in subjects peculiar to Australia. The Oxford University Press acts as distributing agent. It conducts an exchange business in text-books, and caters for students' requirements in stationery and apparatus.

## THE YEARS 1936, 1937

**BENEFACTIONS.** Public Subscription, £65,000, New Union Building. Broken Hill Associated Smelter Pty., Ltd., and Electrolytic Zinc Co. of Australasia, Ltd., £12,500, Union Building Appeal; £5000, Metallurgy Building. Victorian Chamber of Manufactures, £10,000, Chem. Building; £1000, General

Funds. Broken Hill Pty., Co., Ltd., £5000, Chem. Building; £152, Chair of Metall. Dr. A. E. Rowden White, £1000, Students' Union Library. Broken Hill Associated Smelters Pty., Ltd., £1000, Lead Research. Mining and Metallurgical Bursaries Fund, £347, Chair of Metall.; £200, Bursaries and Research Scholarship in Mining and Metall. Messrs. G. J. Coles & Co., Ltd., £500, Union Building Appeal. British Medical Assn. 103rd Annual Meeting, £500, General Funds. Walter & Eliza Hall Trust, £450, Vet. Sci. Research Fellowship. British Medical Assn. (Victorian Branch), £200, Chair of Anat. Mr. John Bell, £150, Cancer Research. Prof. W. N. Kernot, £100, Engin. Research. A.N.T., £100, Cancer Research.

NEW BUILDINGS. A Students' Union containing all facilities for staff and students to develop a more corporate social life, at a cost of £67,000 provided mainly by public subscription; additions to Metallurgy and Arts Buildings, and to X-ray Laboratory.

NEW POSTS. Carnegie Lectureships in Physical Education, Chemistry, and Meteorology, filled by displaced German Scholars; Asst. Director of Metallurgical Research; Research Asst. in Engineering.

CHANGES IN REGULATIONS. New regns. establishing a Degree of Master of Dental Science, and a Walter Kirby Singing Scholarship. Extensive amendments to the medical regns. rearranging the hospital work required of students.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Mr. Colin Clark (Cambridge), a series of lectures in the Commerce School on Economics; Dr. H. S. W. Massey (Belfast), a series of lectures on Modern Physics.

STAFF ABROAD ON LEAVE. During 1937, Prof. W. A. Osborne, Prof. K. H. Bailey, Mr. J. P. Bainbridge, Dr. R. T. Patton, Dr. W. Bryden, Miss A. Nicholls, Dr. R. D. Wright.

DEATH. Emeritus Prof. Sir David Orme Masson.

RETIREMENT. Mr. J. P. Bainbridge, Registrar.

RESIGNATION. Prof. F. Wood Jones (Anat.), on appointment to a Research Professorship at Manchester Univ.

HONORARY DEGREES. *M.A.*—Mr. C. M. Gilray, Headmaster of Scotch Coll.; Rev. W. P. Hackett, Headmaster of Xavier Coll.; Prof. R. M. Crawford, (Hist.). *LL.D.*—Sir R. R. Garran, formerly Solicitor-General to the Commonwealth Government. *D.Sc.*—Assoc. Prof. W. Davies (Biochem.); Prof. A. F. Burstall (Engin.).

STUDENTS (1936). Total, 3752; not attending lectures but receiving tuition by correspondence, 200.

UNIV. EXTENSION. Tutorial class students, 2087; correspondence students, 36; extension lectures, 75.

DEGREES. *B.A.*, 110; *M.A.*, 27; *B.Ed.*, 13; *B.Arch.*, 9; *B.Com.*, 16; *M.Com.*, 1; *LL.B.*, 24; *LL.M.*, 6; *B.Sc.*, 62; *M.Sc.*, 15; *D.Sc.*, 1; *B.C.E.*, 17; *B.M.E.*, 4; *B.Mech.E.*, 2; *M.Mech.E.*, 2; *B.E.E.*, 10; *B.Met.E.*, 2; *B.Agr.Sc.*, 13; *M.Agr.Sc.*, 3; *M.B.*, *B.S.*, 81; *M.D.*, 8; *M.S.*, 7; *B.D.Sc.*, 11; *D.D.Sc.*, 5; *Mus.Bac.*, 2.



# UNIVERSITY OF QUEENSLAND, BRISBANE

Founded 1909

CHANCELLOR—The Hon. Chief Justice Sir J. W. BLAIR, K.C.M.G.

VICE-CHANCELLOR—W. N. ROBERTSON, C.M.G., C.B.E., M.B., Ch.M.  
Edin., F.R.A.C.S., F.C.S.A.

REGISTRAR—C. PAGE HANIFY, M.V.O., F.I.C.A.

## TEACHING STAFF

### *Agriculture*

Murray, J. K., B.A., B.Sc. (Agr.)  
Syd. Prof.

Lectrs. :

Skerman, P. J., M.Sc.Agr. (Crops).  
Wells, W. G. (Cotton).

Keats, R. R. (Dairying and Dairy  
Manufact.).

Barratt, T. J. (Farm Eng.).

Davis, W. T., A.F.I.A. (Farm  
Bookkeeping).

Howie, J. W. (Hortic. and Irriga-  
tion).

Paltridge, T. B., B.Sc. (Plant  
Introduction).

Christian, C. S., M.Sc. (Pastures).

Kerr, H. W., M.Sc., Ph.D. (Sugar).

Mandelson, L., B.Sc.Agr. (To-  
bacco).

### *Anatomy*

Wilkinson, H. J., B.A. Adel.,  
M.D., Ch.M. Syd. Prof.

Meyers, E. S., M.B., Ch.M. Syd.,  
F.R.A.C.S. Lectr.

### *Biochemistry*

Hines, H. J. G., B.Sc. (Agr.) Lond.  
Lectr.

### *Biology*

Goddard, E. J., B.A., D.Sc. Syd.  
McCaughy Prof.

Hamlyn-Harris, R., D.Sc.  
Temp. Lectr.

Cayzer, A., B.Sc. Syd. (Zool.)

Herbert, D. A., D.Sc. Melb. (Bot.)  
Lectr.

Perkins, F. A., B.Sc. (Agr.) Syd.  
(Econ. Ent.) Lectr.

Macpherson, R. K., M.Sc.  
Sr. Demr.

Mee, A. E. Demr.

### *Biophysics*

Webster, H. C., M.Sc. Melb., Ph.D.  
Camb., F.I.P., F.R.M.S.

Lectr.

### *Chemistry*

Bagster, L. S., D.Sc. Adel. Prof.

Edmiston, E. S., B.Sc., B.Sc.  
Appd. (Industrial) Lectr.

Jones, T. G. H., D.Sc. Syd.,  
A.A.C.I. Lectr.

O'Connor, E. A., M.Sc. Melb.  
Lectr.

### *Classics*

Michie, J. L., M.A. Camb., LL.D.  
Castlehow, S., M.A. Ox. Lectr.

Harwood, Miss E., B.A. Tutor.

### *Commerce*

9 Pt.-time Lectrs.

### *Dentistry, v. infra*

### *Education and Experimental Psy- chology*

Ringrose, E. C. D., B.A., B.Sc.,  
M.Ed. Lectr.

*Engineering*

- Hawken, R. W. H., B.A., M.E.  
 Syd., M.I.C.E., M.I.E. (Aust.)  
 Prof.  
 Boyd, A., D.Sc. Lond., B.E. Syd.,  
 M.I.E.E.  
 (Mech. & El. E.) Lectr.  
 Ross, C. N., M.Sc. Tas., B.M.E.  
 Melb. (Civ. E.) Lectr.  
 Munro, A. R., B.E.  
 Sr. Demr. & Asst. Lectr.  
 Stoney, A. J. M'C., B.E.E. Melb.  
 Sr. Demr. & Asst. Lectr.  
 Cummings, R. P., A.R.I.B.A.,  
 Dip. Arch. (Build. Con. and  
 Arch.) Lectr.  
 7 Special Lectrs.

*English Language and Lit.*

- Stable, J. J., M.A. Camb.  
 Darnell Prof.

*Forestry*

- White, C. T. (Forest Bot.)  
 Pt.-time Lectr.

*Geology and Mineralogy*

- Richards, H. C., D.Sc. Melb. Prof.  
 Bryan, W. H., D.Sc. Lectr.  
 Whitehouse, F. W., Ph.D. Camb.,  
 M.Sc. Lectr.  
 Falk, A. N. Demr.

*History and Economic Science*

- Alcock, H., M.A. Ox.  
 McCaughey Prof.  
 Melbourne, A. C. V., M.A. Adel.,  
 Ph.D. Lond. Assoc. Prof.  
 Harrison, W. N. L., B.A. Tutor.  
 Gifford, J. L. K., M.A. Glas. Lectr.  
 Richmond, N. MacD., B.A. N.Z.  
 and Ox. (Econ. H.) Lectr.

*Journalism*

- Pt.-time Lecturers :  
 Best, S. A. (Process Engraving).  
 Cummins, W. H. (J., Libel, Copy-  
 right).  
 Hanlon, J. S. (Australian J.).  
 Kittle, W. E. (Hist. of Printing).  
 Reid, J. F. F. (American J.).  
*Law* [Garrick Prof.  
 Hedges, R. Yorke, LL.D. Manc.

- Fry, T. P., M.A., B.C.L. Ox., Sc.  
 Jur. D. Harv. Lectr.  
 Harrison, W. N. L., B.A. Tutor.  
 Pt.-time Lecturers.  
 Real, E. T., B.A., LL.B. (Admir-  
 alty, Ecclesiast. and Matri-  
 monial L.).  
 Graham, A. D., B.A. (Company  
 and Bankruptcy L.).  
 Macrossan, N., M.A. (Pleading  
 and Practice).

*Mathematics*

- Simonds, E. F., M.A., B.Sc. Syd.,  
 Ph.D. Col. Prof.  
 Raybould, Ethel H., M.A. Lectr.  
 McCarthy, J. P., M.A. Lectr.

*Medical Psychology*

- Lowson, J. P., M.A., M.D. Edin.  
 Research Prof.

*Modern Languages*, v. also Inst.  
of Mod. Langs., *infra*

- Robinson, F. W., M.A. Syd., Ph.D.  
 Jena Lectr.  
 Schindler, C., M.A. Lectr.  
 Tommerup, H. G., B.A.  
 Part-time Lectr.  
 Mahoney, J. C., M.A., B.Litt. Ox.  
 Asst. Lectr.

*Music*

- May, S. Lectr. and Organizer.

*Philosophy*

- Scott-Fletcher, M., M.A. Syd.,  
 B.Litt. Ox. Prof.  
 Kyle, W. M., M.A. Lectr.  
 McCulloch, Doris E., B.A. Tutor.

*Physics*

- Parnell, T., M.A. Camb. Prof.  
 Lusby, S. G., B.A. Camb., M.A.  
 Syd. Asst. Prof.  
 Rimmer, T., M.Sc. Manc. (Phys.  
 and Meteorol.) Lectr.  
 Robertson, D. F. Demr.

*Physiology*

- Lee, D. H. K., M.Sc., M.B., B.S.  
 Syd. Prof.  
 Booth, F. J., B.Sc., M.B., Ch.M.,  
 B.A.O. Belf. Lectr.

*Surveying*

James, F. W., M.Sc.

Lectr.

**Dentistry**

Helmores, F. E., D.D.Sc. Syd. Prof.

Hoole, A. H., L.D.Q. Lectr.

Pohlman, P. H. Snr. Demr.

Pt.-time Lecturers :

Anderson, A. G., M.B., Ch.M. Syd.,  
F.R.A.C.S. (Genl. Surg.).

Bennett, F. C., B.Sc. (Mat. Med.).

Duhig, J. V., M.B. Syd. (Bact. &  
Path.).Earnshaw, P. A., M.B., Ch.M.  
(Dis. of Children in relation to  
Teeth).Foxton, H. V., M.B., Ch.B. Melb.,  
F.R.A.C.S. (Dis. of Ear, Nose  
& Throat).Goldfinch, H., B.D.S. Syd.,  
D.D.Sc. Tor. (Peridontia).Gutteridge, N. M., M.B., B.S.  
Melb. (D. Path.).Murphy, Ellis V., M.B., Ch.M. Syd.,  
M.R.C.P. Lond. (Anæsth.).Rheuben, R. P., D.D.S. Minn.  
(Advd. Prosth., Crown & Br.  
Work & Ceramics).Rosentengel, B. L., D.D.S. Penn.,  
L.D.Q. (Orthod.).Rossiter, A., L.D.Q. (D. Mat. Med.  
& Op. D. Surg.).Russell, Eustace, M.D., Ch.B.  
Edin., M.R.C.P. Edin. (Med.).

Ward, J. W. (Ethics &amp; Jurispr.).

Watkins, S. B., M.Sc. (Metall.).

Wilkinson, Prof. H. J., B.A. Adel.,  
M.D., Ch.M. Syd. (Comp. D.  
Anat. and D. Embryol. and  
Histol.).**Macrossan Memorial Lecturer**1937, Prof. W. Murdoch, M.A.  
(Univ. of Western Australia).  
Subject—"The Strength and  
Weakness of the Victorian  
Era."**John Thomson Lecturer**1937, Dr. J. Clunies Ross (McMaster  
Animal Health Laboratory,  
Sydney Univ.). Subject—  
"The Place of Science in the  
Development of Australia's  
Primary Industries."**External Studies**

Thatcher, T., B.A. Director.

Darvall, Annie E. J., B.A. Asst.

Hartshorn, A. E., B.A. Asst.

James, Beryl C., B.A. Asst.

**Institute of Modern Languages**

Pt.-time Lecturers :

..... (Chinese).

Tommerup, H. G., B.A. (Dutch  
and German).Mahoney, J. C., M.A., B.Litt.  
(French).

Schindler, C., M.A. (French).

O'Connor, E. A., M.Sc. (German,  
Science).Innes, Rev. H. S. R., B.A. (Heb-  
rew).

Luciano, G. (Italian).

..... (Japanese).

Maximoff, Miss H. (Russian).

**Workers' Tutorial Classes**Richmond, N. MacD., B.A. N.Z.  
and Ox. Director.

9 Pt.-time Lectrs.

**RECOGNIZED RESIDENTIAL COLLEGES**

EMMANUEL (Presb.). Principal—Mervyn Henderson, M.A. Camb.

ST. JOHN'S (C. of E.). Warden—Ven. W. H. W. Stevenson, M.A. Syd.,  
Th. Soc.

KING'S (Methodist). Master—Rev. H. H. Trigge, M.A., B.D. Melb.

ST. LEO'S (R.C.). Rector—Rev. P. Meenagh, C.M., M.A.

WOMEN's (undenominational). Principal—Freda Bage, M.Sc. Melb., F.L.S.  
 DUCHESNE (R.C. women). Principal—Madame J. Percy-Dove, rsc.J.,  
 M.A., Dip. Ed. Syd.

For particulars of residence, *see below*.

## GENERAL INFORMATION

The Univ. was established by an Act of the local legislature in 1909. The entire management and control are in the hands of a Senate of 20 members, of whom 10 are appointed by the Government and 10 are elected by the Council (consisting of all members and past members of the Senate, masters, graduates of the Univ. of 3 yrs.' standing, persons appointed by the Govt. as representatives of Commercial, Industrial, Scientific, etc., Assocns., benefactors, etc.). The annual grant from Govt. was £10,000 until 1917, when it was raised to £15,000. In 1922 it was raised to £20,000. In 1923 a further £2000 was voted by the Government, and the amount of £22,000 p.a. was contributed until 1931. In that year, in keeping with general reductions throughout Australia, the Govt. grant was reduced to £19,240 p.a. In 1935 the State Govt. voted a further sum of £1000 p.a. towards the Faculty of Dentistry estab'd. in that year. On the 1st July, 1936, the Govt. restored reductions in endowment to the extent of £4000 p.a. and at the same time granted an additional amount of £5000 p.a. for the establishment of Faculties of Medicine and Veterinary Science. Endowment at the rate of £1013 p.a. was granted as from Jan. 1, 1937, for use in connexion with the newly-established courses in Architecture, Education and Surveying. The total amount of endowment now being received from the State Govt. is therefore £30,735 p.a. Under the will of the late Sir Samuel McCaughey the Univ. received an annual income of about £11,000 until the end of 1931. Owing to the lower rates of interest being earned by investments in Govt. loans, as a result of the conversion arranged in 1931 and reduction of other interest, the income from this source has fallen to approximately £8500 p.a.

Up to 1931 the grounds and buildings facing the Brisbane River and adjoining the Botanical Gardens included, in addition to the main building and recreation grounds, 6 floors of three blocks of the Central Technical College buildings. The remainder of these blocks had to be taken over by the University in 1932, in order to accommodate the increased number of students.

The present site belongs to the Central Technical Coll. and is used only temporarily for Univ. purposes. The permanent site of the Univ. consisting of 223 acres, is situated on the Brisbane River in the suburb of St. Lucia. It has a river frontage on three sides, and was the gift of Dr. and Miss Mayne, Brisbane. The State Govt. announced in 1935 its intention to provide the funds necessary for the erection of buildings on this site.

LIBRARY, 42,500 vols. LABORATORIES: Anat., Agric., Biol., Biophysics, Chem., Applied Chem., Engin., Geol., Metallurgy and Assaying, Physics, Physiol., Psychol.

FACULTIES. Arts, Science, Engineering, Agriculture, Commerce, Dentistry, Law, Medicine, and Veterinary Science.

DEGREE COURSES. (Day Students): 3 yrs.—B.A., B.Com., B.Sc.; 4 yrs.—LL.B., B.Sc. Honours, B.Sc.Agr., B.Sc. (Applied) in Industrial Chem., B.Sc. (Dentistry), B.E. in Civ., Mech. and Elec., Chem., or Mining Engin., B.Surv.; 5 yrs.—B. Vet.Sc.; 6 yrs.—Medicine.

HIGHER DEGREES. Open to Bachelors of 2 yrs.' standing: M.A., M.Com., LL.M., M.Sc., M.App.Sc., M.S.; of 3 yrs.' standing: M.Agr.Sc., M.E., M.D.,

D.V.Sc. ; of 4 yrs.' standing : D.D.Sc. ; of 5 yrs.' standing : D.Agr.Sc. ; of 7 yrs.' standing ; D.Econ., D.E., Litt.D. Open to Masters of 5 yrs.' standing : LL.D., D.Sc. These higher degrees are obtained by examination and/or submission of a thesis, but in some cases certain specified outside experience is required in addition.

OTHER COURSES. Diplomas : Mech. and Elect. Engin., 4 yrs. (may be followed in any approved Coll. or Instn.) ; Architecture, 4 yrs. ; Journalism, 2 yrs. for persons with 3 yrs.' practical experience ; Education, 1 yr. post-graduate. Certificates : Education, 4 yrs. ; Accountancy, 2 yrs. ; Architecture, 2 yrs.

EVENING LECTURES AND EXTERNAL STUDENTS. In the courses which are available to them, evening and external students are permitted to spread their studies over a longer period than that prescribed for day students, and pay a proportionate amount of fees each year. By completing 5 yrs.' evening work at the Univ. or at approved institutions, exemption from the first 2 yrs. of the B.E. course may be obtained.

Persons who, having matriculated, are unable to attend lectures at or in connexion with the Univ., may pursue by correspondence certain courses in the Faculties of Arts, Commerce and Law, under the guidance of the Director of External Studies. They may thereby, provided they pass the usual degree examns. (which may be held at local centres), qualify for degrees.

ADULT MATRICULATION. Candidates who have attained the age of 25 yrs. may be admitted to matricin. in all the Faculties upon passing a special examn.

FEES. Matricn., £1 : 1s. ; admission *ad eundem statum*, £1 : 1s. ; Lecture Fees for single subject per Term, £2 : 2s. ; Composition Fees for complete Degree Course in the Facs. of Arts and Comm., 12 to 18 gns. p.a. ; Law, £22 : 10s. p.a. ; Science (Pure), 20 gns. p.a. ; Science (Applied), Engineering, and Veterinary Science, Dentistry and Medicine, £40 p.a. ; General Purposes Fee, 2 gns. to 4 gns. p.a. ; Examn. Fees, 1 gn. to 2 gns. ; Graduation Fees—Bachelor, 3 gns. to 10 gns. ; Master, 5 gns. ; Doctor, 10 to 20 gns.

SCHOLARSHIPS, ETC., FOR GRADUATES. 2 gold medals offered by Govt. for distinction at graduation ; £100 p.a. for 2 yrs. for Original Research ; £200 for 1 yr. for Engin. work ; £250 p.a. for 2 yrs. for study outside Australasia ; £500 p.a. for 3 yrs. (W. and E. Hall Foundation), of which 2 to be spent abroad in Engin. Research ; £450 p.a. for 2 yrs. in Econ. Biol. With the exception of the two last mentioned, the award of these scholarships has been discontinued, pending an improvement in the economic position.

RESIDENCE. Undergraduates are required to reside with their parents or approved friends or a tutor or in a recognized Residential Coll. or other instn. approved by the Senate. Fees in any of the Colleges, including residence, commons, and tuition, amount to approx. 60 gs. a year.

PUBLIC EXAMINATIONS are held by the Univ. annually in Nov. and Dec. : Junior (divided into 6 sections, viz.—General, Art, Commercial, Home Sc., Agric. and Industrial) and Senior. For matricn. the corresponding public examns. of the other Australian Univs. are treated as equivalent to these.

MUSIC EXAMINATIONS. Under a joint scheme, controlled by the Australian Music Examns. Board, which is representative of the Universities of Queensland, Melbourne, Tasmania, Adelaide, and Western Australia, and the State Conservatorium of Music of New South Wales, examns. in Music and Art of Speech are held throughout the Commonwealth twice a year, in May and September.

PUBLICATIONS. *Calendar* (Jan.), 2s. (postage 6d. extra); *Manual of Pub. Examns.*, 2s. (postage 3d. extra); *Music Manual*, free, postage 3d.

## THE YEARS 1936, 1937

**BENEFACTIONS.** (1937) Post-Graduate Committee of the British Medical Assn. (Queensland Branch), for the purchase of a micro-projector, £100; the late Mrs. E. J. Youngman of Brisbane, for research in connexion with tropical diseases, £100; Lord Nuffield (England), for use in connexion with the Faculty of Medicine, £3250; the late William Robertson of Brisbane, to further the objects of the Chair of Agriculture, £20,000.

**NEW BUILDINGS.** Owing to the decision to proceed with the erection at an early date of the permanent university buildings at St. Lucia, and because of the State Commercial High School's urgent need of additional accommodation, the Univ. has been allotted and has moved into only a portion of the new two-storey building referred to under the heading of "New buildings" in the 1937 *Yearbook*. New Veterinary Science School building at Yeerongpilly completed, Dec. 1937; new Medical School building at Herston will be ready for occupation about the end of 1938; building of new School of Dentistry and Dental Hospital in Turbot Street commenced, Sept. 1937.

**NEW DEPARTMENTS AND POSTS.** As part of development of new Facs. of Law, Med. and Vet. Sci. new posts were created: in Law, 3 pt.-time Lectureships, 1 Tutorship; in Med., 3 pt.-time Lectureships—Med., Surg., Psychiatry; in Vet. Sci., Lectureship in Zootechny and Preventive Med. In Fac. of Commerce, pt.-time Lectureship in Statistics and Statistical Method. In order to provide degree course in Surveying and certif. and diploma courses in Architecture and Education, the following: Lectureship in Education and Experimental Psychol., in Architecture, Asst. Lectureship in Surveying. In addition, Lectureship in Indust. Chem., Asst. Lectureship in French, Tutorship in Philos. A Lecturer in Biophysics was apptd. to carry out X-ray and other similar work under joint scheme between Univ., Brisbane and S. Coast Hospitals Bd. and Queensland Cancer Trust.

**EXTRA-MURAL WORK.** An Institute of Modern Languages has been established to provide for the study, under expert guidance, of foreign languages up to the Senior Public Examination, *i.e.* matriculation, standard. Classes were held during 1937 in Dutch, French, German, Hebrew, Italian and Russian.

**OTHER ACTIVITIES.** (a) *Teaching:* During 1937 special post-graduate courses in Anatomy and Physiology were arranged by the Fac. of Medicine for candidates preparing for the examns. for higher degrees in Surgery, and for the F.R.C.S. By arrangement with the College of Pharmacy (a separate institution) a special course in Physiology was conducted for pharmacists. (b) *Research:* Under a 5-yr. scheme sponsored and financed by the Commonwealth Govt., through the Commonwealth Committee for Scientific and Industrial Research, the Australian Univs. will each be allotted a certain sum each year for the next 5 yrs., commencing in 1937, for the purpose of carrying out approved research work. The Univ. of Queensland's share of the grant for 1937 is £4200. The following researches are in progress: native stocks for cultivated plants; the taxonomy, biology, ecology, and distribution of Australian Trypaneidæ (fruit flies); the collection and study of fossil insects from Mount Crosby, studies in vacuum evaporation; chemical investigations concerning fruit and wool; a survey of Queensland plant products; a survey of the productive capacity of Queensland; the geological structure of the Queensland

portion of the Great Artesian Basin ; study of soils in south-eastern Queensland ; the geological structure of the far west of Queensland ; seismic studies ; movements of air masses as climate controls in Queensland ; methods of glue testing ; hydraulic flow of slurries ; and methods of measurement in surveying. In addition three research scholarships have been granted—one in palæontology and two in industrial chemistry.

**VISITING LECTURER.** In June, 1937, the Macrossan Lectures for 1936, which were unavoidably postponed, were delivered by Mr. Justice Evatt, of the High Court of Australia—subject, "The Overthrow of Bligh."

**HONORARY DEGREES.** *M.A.*—On the occasion of the Queensland session of the World Conference of the New Education Fellowship, held in Brisbane in Aug. 1937, Dr. E. Brunner, Prof. of Education, Columbia Univ., U.S.A. ; G. T. Hankin, Board of Education, England ; Sir Percy Meadon, C.B.E., Director of Education, Lancashire, England.

**RETIREMENT.** T. E. Jones, Director of External Studies, 31.3.38.

**STUDENTS:** 1936 : Full-time, 353 ; part-time, 792 ; total, 1145 (increase over 1935, 56). 1937 : Full-time, 404 ; part-time, 822 ; total, 1226 (increase over 1936, 81).

**DEGREES.** 1936 : B.A., 56 (including 1 *ad eundem gradum*) ; M.A., 6 ; B.Sc., 13 ; M.Sc., 3 ; B.Sc. (Applied), 2 ; M.Sc. (Applied), 1 ; B.E., 6 ; M.E., 1 ; B.Agr.Sc., 6 ; M.Agr.Sc., 4 ; B.Com., 4 ; B.D.Sc., 14 ; total, 116 (increase over 1935, 22). 1937 : B.A., 2 ; M.A., 6 ; B.Sc., 14 ; M.Sc., 5 ; B.E., 7 ; M.E., 1 ; B.Sc. (Agric.), 2 ; M.Sc. (Agric.), 1 ; B.Com., 2 ; B.D.Sc., 10 ; total, 110.

# UNIVERSITY OF SYDNEY

Founded 1850

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Mr JUSTICE HALSE ROGERS, B.A., B.C.L.

DEPUTY-CHANCELLOR—A. E. MILLS, M.B., Ch.M.

VICE-CHANCELLOR—R. S. WALLACE, M.A. Aberd. and Ox., LL.D.  
Aberd.

REGISTRAR—W. A. SELLE, M.A.

ASSISTANT REGISTRAR—G. DALE, B.Ec.

LIBRARIAN—H. M. GREEN, B.A., LL.B.

TUTOR TO WOMEN STUDENTS—ISABEL M. FIDLER, B.A.

## TEACHING STAFF

*Accountancy*, v. Com.

*Agriculture*, v. also Vet. Sci.

Watt, R. D., M.A., B.Sc.

Dean and Prof.

Lectrs. :

Waterhouse, W. L., D.Sc.Agr.,  
D.I.C. Lond. (Plant Path. and  
Agr. Bot.).

Wright, G. (A. Chem.).

Anderson, R. H., B.Sc.Agr. (For-  
estry).

Savage, C. G. (Fruit Culture).

Churchward, J. G., Ph.D. Minn.,  
B.Sc.Agr. Asst. Lectr.

*Anatomy*

Burkitt, A. N. St. G. H., M.B.,  
B.Sc. Challis Prof.

Stump, C. W., D.Sc., M.D. Edin.  
(Histology and Embryology)  
Bosch Prof.

Abbie, A. A., M.D., B.S., B.Sc.

Lectr.

Miller, I. D., M.D., Ch.M. (Surg.  
A.) Lectr.

Garde, Mary L., B.Sc. (Histol.)  
Lectr.

Niesche, F. W., M.B., M.S. Lectr.

Demrs. :

Braddon, P. D., M.B., Ch.M.

Kinsella, V. J., M.B., Ch.M.

Lovell, S. H., M.B., B.S.

May, L., M.B., Ch.M.

*Anthropology* [Prof.

Elkin, A. P., M.A., Ph.D. Lond.

Hogbin, H. I. P., M.A., Ph.D.  
Lectr.

*Architecture*

Wilkinson, L., F.R.I.B.A., F.I.A.  
Dean & Prof.

Hook, A. S., A.R.C.A. (Pract. and  
Constn.) Assoc. Prof.

Richardson, W. R. Lectr.

Thompson, E. L., B.Arch. Lectr.

Harris, R. K. Lectr.

Carter, N. (Freehand Dr.) Instr.

McConnel, K. H., B.Arch. Lectr.

*Astronomy*, v. Geodesy

*Botany*, v. also Agric.

Ashby, E., D.Sc. Lond. Prof.

McLuckie, J., M.A. Glas., D.Sc.  
Asst. Prof.

Brough, P., M.A., D.Sc., B.Sc.Agr.  
Glas. Lectr.



*Chemistry*

Fawsitt, C. E., D.Sc. Edin., Ph.D.  
Leip. Prof.

## Lectrs. :

Burrows, G. J., B.Sc.  
Iredale, T., D.Sc. Lond., B.Sc.  
Mellor, D. P., M.Sc.  
Mills, J. E., M.Sc. Q'ld., Ph.D.  
Lond. Asst. Lectr.

*Chem., Organic, Pure and Applied*

Earl, J. C., D.Sc. Adel., Ph.D.  
St. And., F.I.C. Prof.  
Lions, F., Ph.D. Manc., B.Sc.  
Lectr.  
Trikojus, V. M., D.Phil. Ox., B.Sc.  
Lectr.  
Hughes, G. K., B.Sc. Adel.  
Asst. Lectr.

*Classics*

Todd, F. A., B.A., Ph.D. Jena  
(Latin) Prof.  
Powell, J. E., M.A. Camb. (Greek)  
Prof.

## Lectrs. :

Powe, A. B., M.A. Q'ld (Latin).  
Robinson, A. H., M.A. (Latin).  
Shipp, G. P., B.A. (Latin).

*Commerce*

## Lectrs. :

Kerr, I. W., B.Ec., F.I.C.A.  
(Acctcy.).  
Tayler, L. J., B.Ec. (Business)  
(Acting).  
Ashburner, R., B.A., B.C.L. Ox.  
(Com. and Indust. Law).

*Dentistry, v. infra**Economics*

Mills, R. C., O.B.E., LL.M. Melb.,  
D.Sc. (Econ.) Lond.  
Dean & Prof.  
Bland, F. A., M.A., LL.B. (Pub.  
Admn.) Prof.  
Walker, E. R., Ph.D. Camb M.A.,  
Lectr.  
Watts, P. R., B.A., LL.B. (Mod.  
Pol. Institutions) Lectr.

Sawkins, D. T., B.A. Camb., M.A.,  
F.S.S. (Statistics) Lectr.  
Madgwick, R. B., D.Phil. Ox.,  
M.Ec. (Econ. Hist.) Lectr.  
Black, H. D., B.Ec. Lectr.  
Crawford, J. G., B.Ec. (Rural  
Econ.) Lectr.  
Butlin, S. J., B.A. Camb., B.Ec.  
Asst. Lectr.

*Education*

Mackie, A., M.A. Prof.  
Cole, P. R., M.A., Ph.D. Col. (Hist.  
of Ed.) Lectr.  
Roberts, T. T., M.A. Lectr.

*Engineering, v. infra**English Language*

Holme, E. R., O.B.E., M.A.  
McCaughey Prof.

*English Literature*

MacCallum, Sir Mungo W.,  
K.C.M.G., M.A., LL.D. Glas.,  
D.Litt. Ox. Hon. Prof.  
Waldock, A. J. A., M.A. Prof.  
Howarth, R. G., B.A., B.Litt. Ox.  
Lectr.  
Mitchell, A. G., M.A. Asst. Lectr.  
Maxwell, I., B.A. Melb., B.Litt.  
Ox. Asst. Lectr.

*Forestry, v. Agric.**French*

Nicholson, G. G., C.B.E., M.A.,  
B.C.L. Ox. McCaughey Prof.  
Marks, Gladys, B.A. Lectr.  
de Vial, J., L. ès L. Lectr.  
Henning, I., D. de l'U. Paris, B.A.  
Asst. Lectr.

*Geodesy and Astronomy*

Sawkins, D. T., B.A. Camb., M.A.  
Russell Lectr.

*Geography*

Holmes, J. McD., B.Sc. Glas.  
McCaughey Assoc. Prof.  
Andrews, J., B.A., Ph.D. Camb.  
Asst. Lectr.  
Maze, W. H., M.Sc. Asst. Lectr.

*Geology and Phys. Geog.*

- Cotton, L. A., M.A., D.Sc.  
 David Prof. & Hovell Lectr.  
 Browne, W. R., D.Sc. (on leave)  
 Asst. Prof.  
 Waterhouse, L. L., B.E. Lectr.  
 Osborne, G. D., D.Sc. Lectr.  
 Brown, Ida A., D.Sc. Lectr.  
 Quodling, Florrie M., B.Sc.  
 Actg. Asst. Lectr.  
 Joplin, Germaine A., B.Sc., Ph.D.  
 Camb. Actg. Asst. Lectr.  
 Culey, Alma, B.Sc. Actg. Curator.

*German and Comparative Lit.*

- Waterhouse, E. G., M.A.  
 McCaughey Assoc. Prof.  
 Farrell, R. B., M.A., Ph.D. Berlin  
 Asst. Lectr.

*Histology and Embryol., v. Anat.**History*

- Roberts, S. H., M.A., D.Litt. Melb.,  
 D.Sc. (Econ.) Lond.  
 Challis Prof.  
 ..... Lectr.  
 Shepherd, J., B.A. Asst. Lectr.

*Italian*

- Shaw, R. M., M.A. Lectr.

*Japanese Lang. and Lit.*

- Sadler, A. L., M.A. Ox. Prof.

*Law, v. infra**Mathematics, Pure and Applied*

- Room, T. G., M.A. Camb. Prof.  
 Wellish, E. M., B.A. Camb., M.A.  
 (Appl. M.) Assoc. Prof.  
 Lyons, R. J., M.A. Camb., B.A.  
 Lectr.  
 Thorne, H. H., M.A. Camb., B.Sc.  
 Lectr.  
 Smith-White, W. B., B.Sc.  
 Asst. Lectr.

*Medicine, v. infra**Mining, v. Engineering**Philosophy* [Challis Prof.]

- Anderson, J., M.A. Glas.

- Partridge, P. H., M.A. Asst. Lectr.  
 Passmore, J. A., B.A. Asst. Lectr.

*Physics*

- Vonwiller, O. U., B.Sc. Prof.  
 Bailey, V. A., M.A., D.Phil. Ox.  
 (Experimental P.) Prof.  
 Briggs, G. H., Ph.D. Camb., D.Sc.  
 Asst. Prof.  
 Booth, E. H., M.C., D.Sc., F.I.P.  
 Lectr.

*Physiology*

[Prof.]

- Davies, H. W., M.B., B.S. Adel.  
 Priestley, H., B.Sc., M.D., Ch.M.  
 McCaughey Assoc. Prof.

## Lectrs. :

- Cotton, F. S., D.Sc.  
 McQuiggin, H. G., B.Sc., M.B.,  
 Ch.M.  
 Wardlaw, H. S. H., D.Sc.  
 Hindmarsh, Ellen M., B.Sc.  
 Still, J. L., B.Sc. Asst. Lectr.

*Psychology*

- Lovell, H. T., M.A., Ph.D. Jena  
 Dean and McCaughey  
 Prof.  
 Martin, A. H., M.A., Ph.D. Col.  
 Lectr.  
 Gibb, C. A., B.A. Asst. Lectr.

*Veterinary Science*

- Stewart, J. D., B.V.Sc., F.R.C.V.S.  
 Dean & Prof.  
 Carne, H. R., D.V.Sc. (V. Path.  
 and Bact.) Lectr.  
 Gunn, R. M. C., D.V.Sc., B.Sc. Agr.  
 Birm. & Syd., M.R.C.V.S.  
 (V. Surg. & Anat.) Lectr.  
 Henry, M., D.S.O., B.V.Sc.,  
 M.R.C.V.S. (Vet. Juris.)  
 Lectr.  
 Gordon, H. M., B.V.Sc. (V.  
 Parasitol.) Lectr.  
 Creswick-Jackson, N. E., B.V.Sc.  
 (V. Mat. Med. and Pharm.)  
 Lectr.  
 Drabble, J., B.V.Sc. (Meat In-  
 spection) Lectr.

Whitehouse, F., B.V.Sc. (Zoo-techny) Lectr.

Whittet, J. M. (Pastoral Bot.) Lectr.

Webb, R. M., B.V.Sc. (V. Anat.) Asst. Lectr.

### *Zoology*

Dakin, W. J., D.Sc. Liv., F.L.S. Dean and Challis Prof.

Briggs, E. A., D.Sc. Asst. Prof.

Colefax, A. N., B.Sc. Lectr.

Woodhill, A. R., B.Sc.Agr. (Entomol.) McCaughey Lectr.

### **Engineering**

*Civil* [Challis Prof.]

Miller, W. A., B.Sc. Glas., M.E.

Lectrs. :

Vogan, H. J., B.E.

Leech, T. D. J., B.Sc., B.E.

Bickford, C. R. (Harbour and Docks).

Larkins, H. M., B.E. (Irrigation).

Nicol, T. B., B.E. (Water Supply and Sewerage).

Vicars, J., M.E. (Road Pavement).  
Hodgson, C. A., M.A. Camb. (Econ. of Rly. Transport).

Aston, R. L., M.Sc., Ph.D. Camb., B.Sc., B.E. (Surveying, etc.).

### *Electrical*

Madsen, J. P. V., B.E., D.Sc. Adel. Russell Prof.

Lectrs. :

Sharp, L. H., B.Sc., B.E.

Campbell, E. F., B.E.

Martyn, D. F., Ph.D. (Atmospheric Physics).

### *Mechanical*

Barracrough, Sir H. E., K.B.E., V.D., M.M.E. Corn., B.E., M.I.M.E., M.I.C.E.

Dean and Russell Prof.

Sutherland, G. F., A.R.C.S. Asst. Prof.

Lectrs. :

Swain, H. J., B.A., B.Sc., B.E. (Internal Combust. Engines).

Gibson, W. H. H., B.Sc., M.E.

Hart, K. R. M., B.Sc., M.E.

*Mining* [Russell Lectr.]

Clayton, C. H. J., B.E.

*Technology and Metallurgy*

Eastaugh, F. A., A.R.S.M., F.I.C. Assoc. Prof.

Leslie, W. J., B.E. Asst. Lectr.

**Law, v. also Com.**

Peden, The Hon. Sir John B., K.C.M.G., K.C., B.A., LL.B., M.L.C.

Dean and Challis Prof.

*Admiralty Law*

Wright, G. L., LL.B. Lectr.

*Bankruptcy and Probate*

Sheldon, W. S., B.A., LL.B. Challis Lectr.

*Company Law*

Sheldon, W. S., B.A., LL.B. Lectr.

*Contracts, Merc. Law, Torts*

Sugerman, B., LL.B. Challis Lectr.

*Conveyancing*

Watts, P. R., B.A., LL.B. Challis Reader.

*Criminal Law*

Treath, V. H., B.A., B.C.L. Ox. Lectr.

*Divorce*

Mackenzie, W. K. S., D.S.O., B.A. Challis Lectr.

*Equity Law*

Windeyer, W. J. V., B.A., LL.B. Challis Lectr.

*Industrial Law*

O'Mara, T., LL.B. Hyman Lectr.

*International Law & Jurispr.*

Charteris, A. H., M.A., LL.B. Edin. Challis Prof.

*Legal Ethics*

Windeyer, W. J. V., B.A., LL.B. [Lectr.]

*Legal History*

May, H. W., LL.B. Actg. Lectr.

*Legal Interpretation*

Taylor, A. R., LL.B.

Challis Lectr.

*Lunacy Law*

Barracrough, F. E., M.A., LL.B.

Lectr.

*Procedure, Evidence, & Pleading*

McMinn, W., B.A., LL.B.

Challis Lectr.

*Roman Law*[Challis Lectr.  
Flattery, T. P., M.A., LL.B.]*Medicine*(for subjects of first 2 yrs.—  
Anat., etc., v. *supra*)*Anæsthetics*

Hotten, W. I. T., M.B., Ch.M.

Lectr. and Tutor.

*Tutors :*

Hunter, H., M.B., Ch.M.

Holloway, E. S., M.B., Ch.M.

Allen, R. A. M., M.B., Ch.M.

Holt, W. G., M.B., Ch.M.

Pearce, H. G., M.B.

*Bacteriology*

Ward, H. K., M.B. Bosch Prof.

Goldsworthy, N. E., M.B., Ch.M.,  
Ph.D. Lectr.

Rudd, G. V., D.Sc. Melb. Lectr.

*Cancer Research**Supervisors of Research Work :*

Vonwiller, Prof. O. U. (v. Phys.).

Welsh, Prof. D. A.

Priestley, Prof. H. (v. Physiol.)

Love, W. H., B.Sc. Physicist.

Harper, A. F. A., M.Sc. Physicist.

Harker, G., D.Sc. Research Worker.

Wilkins, T., B.E.

Consulting Engineer.

*Diseases of Ear, Nose, Throat*

Godsall, R. S., M.B., Ch.M.,

F.R.C.S. Lectr.

*Diseases of the Skin*

Molesworth, E. H., M.D., Ch.M.

Lectr.

*Gynæcology*

Schlink, H. H., M.B., Ch.M.

Lectr.

*Infectious Diseases*

Wilson, F. H. H., B.Sc., M.B.

Lectr.

*Medical Jurispr. and Ethics*

Palmer, A., M.B., Ch.M. Lectr.

*Medicine*Lambie, C. G., M.C., M.D. Edin.,  
F.R.C.P. Bosch Prof.Trikojus, V. M., B.Sc., D.Phil. Ox.  
(Org. Chem.) Lectr.*Medicine, Clinical**Lectrs. :*

Smith, S. A., M.B., Ch.M.

Lidwill, M. C., M.D.

Ritchie, H. J., M.B., Ch.M.

Holmes à Court, A. W., M.D., Ch.M.

Stephen, E. H. M., M.B., Ch.M.

Diethelm, O. A., M.B., Ch.M.

*Med. Tutors :*

Morrow, A. W., M.B., Ch.M.

Maddox, J. K., M.D., Ch.M.

Susman, E. L., M.B., Ch.M.

Bye, W. A., M.B., Ch.M.

Stokes, E. H., M.B., Ch.M.

Stobo, A. J. H., M.B., Ch.M.

Noad, K. B., M.B., Ch.M.

Taylor, R. J., M.B., Ch.M.

Sherwood, J., M.B., Ch.M.

*Obstetrics*Windeyer, J. C., M.D., Ch.M.,  
M.R.C.S., L.R.C.P. Prof.D'Arcy, Constance E., D.B.E.,  
M.B., Ch.M. Lectr.

Donovan, H. C., M.B. Lectr.

Harper, Margaret H., M.B., Ch.M.  
(Mothercraft) Lectr.

Ridler, H. A., M.B., Ch.M. Tutor.

Bowman, R. M., M.B., Ch.M.

Tutor.

Gibson, A. J., M.B., Ch.M. Demr.

Lowe, G. B., M.B., Ch.M. Demr.

*Ophthalmology*

Waddy, R. G., M.B., Ch.M. Lectr.

*Pathology*

Inglis, W. K., M.D., Ch.M. Prof.

## Lectrs. :

Canny, A. J., M.B., Ch.M.

Gillies, A. D., B.Sc., M.B., B.S.

Walker, A. S., M.D., Ch.M. Demr.

*Pharmacy*Finnemore, H., B.Sc. Lond., F.I.C.  
Lectr.Large, Dorothy K., B.Sc.  
Asst. Lectr.*Preventive Medicine*Sutton, H., O.B.E., M.D., Ch.B.  
Melb. Prof.*Psychiatry*Dawson, W. S., M.A., M.D., B.Ch.  
Prof.*Surgery*Dew, H. R., M.B., B.S. Melb.,  
F.R.C.S.

Dean and Bosch Prof.

Phillips, G. E., M.Sc., M.B., M.S.  
Lectr.*Surgery, Clinical*

## Lectrs. :

McKelvey, Sir John L., M.B.,  
Ch.M.

Storey, J. C., M.B., Ch.M.

Bell, G., M.B., Ch.M.

Aspinall, A., M.B., Ch.M.

Hipsley, P. L., M.D., Ch.M.

Coppleson, V. M., M.B., Ch.M.

## Tutors :

McCredie, D. W., M.B., Ch.M.

Money, R. A., M.B., Ch.M.

Flynn, M. R., M.D., Ch.M.

MacMahon, J. S., M.B., Ch.M.

Buchanan, A. L., M.B., Ch.M.

Winston, C. E., M.B., Ch.M.

Susman, M. P., M.B., Ch.M.

Perry, W., M.B., Ch.M.

*Dentistry*

Arnott, A. J., D.D.Sc.

Dean and McCaughey Prof.

Marshall, F., C.M.G., D.D.S. (Mech.  
D.) Lectr.

Gates, E. C., D.D.S. (Clin. D.) Lectr.

Ash, P. A., D.D.S. (Surg. D.) Lectr.

Harris, R., B.D.S. (Oper. D.)  
Lectr.Hardwick, F. G., B.D.S., D.M.D.  
(Dental Mat. Med.) Lectr.

Kirkpatrick, R. M., B.D.S. Lectr.

Grainger, W. A., B.D.S. (Cer-  
amics) Lectr.

Palmer, A. B. A.

Asst. Lectr. and Demr.

## University Extension

Booth, E. H., M.C., D.Sc., F.I.P.  
Secy. to the Board.

## Tutorial Classes

Duncan, W. G. K., M.A., Ph.D.  
Lond. Director.

Wilson, J. L. J., B.A. N.Z.

Asst. Director.

1 full-time tutor and 36 tutorial  
class lectrs.

## COLLEGES WITHIN THE UNIVERSITY

ST. PAUL'S COLLEGE (Anglican). Warden—Rev. A. H. Garnsey, M.A.  
Sub-Warden—P. C. Greenland, M.A. 7 other Lectrs.ST. JOHN'S COLLEGE (R.C.). Rector—Rev. J. C. Thompson, C.M., M.A.,  
Dip.Ed. Ox. Vice-Rector—Rev. E. N. Archer, C.M., B.A. 8 other Lectrs.ST. ANDREW'S COLLEGE (Presb.). Acting Principal—Rev. J. Edwards,  
M.A. Vice-Principal—R. Ashburner, B.A. 14 other Profs. and Lectrs.

WESLEY COLLEGE (Methodist). Master—Rev. L. E. Bennett, M.A. Melb., B.D. Lond. Vice-Master—W. E. Fisher, M.D., Ch.M. 6 Lectrs.

THE WOMEN'S COLLEGE (undenominational). Principal—Camilla Wedgwood, M.A. Camb. 6 Lectrs.

SANCTA SOPHIA COLLEGE (R.C. Women). Principal—Mother Helen Boydell. Vice-Principal—Mother Mary Arnold, M.A. 9 Lectrs.

## GENERAL INFORMATION

Founded by Act of the N.S.W. Legislature in 1850, the Univ. was granted a Royal Charter in 1858. Its development has been largely due to private benefactions: notably those of J. H. Challis—£250,000—in 1880; T. Fisher—£30,000 for Library—in 1885; P. N. Russell—£100,000 for School of Engineering, etc.—in 1896 and 1904; W. O. Watt, £78,354, 1925–1928; and G. H. Bosch, £249,000, 1927–1928. Under the will of Sir S. McCaughey it receives an annual income which amounted in 1930 to £23,020. In 1912 the Statutory endowment was raised from £10,000 to £20,000, with provision for further automatic increases, and at the same time the constitution of the governing body, called the Senate, was altered so as to include 6 noninees of the Govr. and Parliament (one-fourth of the whole number). In 1917–18 the Statutory endowment was further increased to £32,000, including £2000 for the new School of Archt. In 1919 the State provided £50,000 a year for 6 years for additional buildings. The Faculties were, in that year, increased from 4 to 10. The grounds, which include the sites of the Colleges grouped round an oval, cover 140 acres.

Provision was made by Act of Parliament soon after the foundation of the Univ. for endowing such Colleges as might be established within it, to the extent of £20,000 in aid of building and £500 p.a. towards the Principal's salary.

The FISHER LIBRARY, endowment £30,000, 225,000 vols., receives about 1800 serial publications. MUSEUMS: Nicholson collection of Egyp., Greek, Roman and Medieval Antiq. (4000 specimens); Macleay Nat. Hist.; Anat., Geol., and Zool.; Obstetric, Materia Medica. LABORATORIES: Schools of Med., Engin. and Archt. (atelier), Bot., Chem. (including Metall. and Research), Geol. (with rock analysis Research), Phys., Zool. There is a MARINE BIOLOGICAL STATION at the entrance to Port Jackson with a small auxiliary yacht for biological and oceanographical research under Prof. Dakin. The ROYAL PRINCE ALFRED HOSPL., erected on the Univ. grounds as a general hospl. and school, has 518 beds. Gladesville mental hospl. recognized by Camb. for clinical work for Dip. Psych. Med.

FACULTIES. (1) Arts, (2) Law, (3) Medicine, (4) Science, (5) Engineering, (6) Dentistry, (7) Vet. Science, (8) Agriculture, (9) Economics, (10) Architecture.

DEANS—(1) Prof. H. T. Lovell (Psychol.), (2) Prof. The Hon. Sir John B. Peden (Law), (3) Prof. H. R. Dew (Surg.), (4) Prof. W. J. Dakin (Zool.), (5) Prof. Sir H. E. Barraclough (Mech. Eng.), (6) Prof. A. J. Arnott, (7) Prof. J. D. Stewart, (8) Prof. R. D. Watt, (9) Prof. R. C. Mills, (10) Prof. L. Wilkinson.

COMMONWEALTH SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE: The School acts as the teaching and examn. centre for the Univ.'s Diplomas of Public Health, Trop. Medicine, and Trop. Hygiene. In addition a course in Preventive Med. is given, and lectures in School Hygiene for the Diploma in Education. Short courses are also given in Architectural Hygiene, Social Hygiene, and Trop. Hygiene. The School is financed by the Commonwealth Health Dept., but all teaching is directly controlled by the Univ. and the Fac

of Med., together with all matters concerning diplomas, syllabuses, fees, examns., etc. An Advisory Council, under the Chairmanship of the Director-General of Public Health, Commonwealth of Australia, deals with all matters of policy. The staff consists of a Director (also Prof. of Preventive Med.), 4 Med. Officers (incl. 2 Deputy Directors), and a number of Visiting Lectrs.; 1 Entomologist, 4 Tech. Assts., and 3 Clerks. The D.P.H. requirements are those of the General Medical Council of Gt. Britain, the D.T.M. corresponds to similar courses at the London School of Hygiene and the Liverpool School of Tropical Medicine. The main divisions of the School are those of Chem. and Physics, Bacteriol. and Pathol., Parasitol., Entomol., Indust. Hygiene. An excellent Library, especially in Trop. Med. and Hygiene, is available. Adequate accommodation is available for research students.

**DEGREE COURSES.** 3 yrs.—B.A., B.Sc.; 4 yrs.—Honours B.Sc., B.Sc. in Agric., B.Ec., LL.B., B.D.S., B.E. (in Civil Engineering, Mechanical and Electrical Engineering, Mining and Metallurgy, or Engineering Technology); 5 yrs.—B.V.Sc., B.Arch.; 6 yrs.—M.B., B.S.; 2 yrs.' advanced study or research (after full 3 yrs.' course at another Univ.)—B.A. or B.Sc. The LL.B. qualifies conditionally for admission to the bar. Law students usually take the B.A. first, selecting Law subjects in 3rd yr., and complete combined course in 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articulated clerk. **HIGHER DEGREES.** Obtainable by bachelors of 2 yrs.' standing—M.A., M.Ec., LL.D., M.D., M.S., M.Sc., M.D.S., M.Sc.Agr.; 3 yrs.—D.Sc., M.E.; 5 yrs.—D.Sc. Eng.; D.Dent.Sc.; D.V.Sc., D.Sc.Agr. **DIPLOMAS.** Educn. (for graduates in Arts or Sc.), 1 yr.'s course; Com., 3 yrs.; D.P.H.; D.T.M.; D.T.H.; Psychological Medicine; Radiology; Anthropology; Public Administration; Pharmaceutical Science.

**RECOGNITION OF STUDIES ELSEWHERE.** A considerable portion (in Med. 3 yrs.) of the curriculum for a Degree must be taken in Sydney. Holders of the Honours Diploma of the *Hawkesbury Agricultural College* or any college of similar standing who have passed the Intermediate Certificate Examn. in matriculation subjects may be admitted as matriculated students in Vet. Sc. or Agriculture.

**FEES.** Matricn., £3; Degree in Arts, Econ., Sci., Agric., or Vet. Sci., £3; M.D. and M.S., £20; other Degrees, £10; Degree Courses in Arts, 3 yrs., £75; Econ., 4 yrs., £96; Law, £90 (Arts subjects additional); Med., £234 (excluding Hospl. Attendance, 21 gs., and practical Midwifery, 5 gs.); Dent., 4 yrs., £150 (excluding Dent. Hospl. £15 p.a.); Science, 3 yrs., £99; Engin., 4 yrs., £154 (Mining and Metall., £168); Agric., 4 yrs., £118: 10s.; Vet. Sci., 5 yrs., £145; Archit., 5 yrs., £182.

**SCHOLARSHIPS, ETC., FOR GRADUATES.** Junior Demrs. are appointed annually in each Scientific Dept. with the obligation to carry out research under the direction of the Prof.; 6 post-grad. Scholarships of from £150 to £200 each are awarded annually for scientific study and research in the Univ.; 4 Macleay Fellowships of £400 p.a. each are tenable by B.Sc.'s; 4 others of £300 p.a., and 2 Schol'ps. of £250 p.a., tenable for 2 yrs., are awarded annually for further study and research at Syd. or abroad.

**RESIDENCE.** The four denominational Colls. (v. *supra*) provide accommodation for about 260 students; the Women's Coll. for about 70, and Sancta Sophia College for 50 R.C. women students.

**UNIVERSITY EXTENSION LECTURES** are given in courses of from 3 upwards in Sydney and numerous local centres. *Tutorial Classes* are provided, as prescribed by the Act of 1912, under the superintendence of a Joint Committee

of the Univ. and Workers' Educl. Asscn. of N.S.W. In 1936 the Govt. grant for this purpose was £4126; 57 classes were at work, including 1705 effective students.

**PUBLICATIONS.** *Calendar* pubd. in August, 4s., with annual report and list of publcns. of Univ. Staff; Reprints of Scientific Papers by members of the Staff; *Hermes*, an undergrads.' mag., 5s. p.a. (3 issues); The *Union Recorder* (weekly during Term).

## THE YEARS 1936, 1937

**BENEFACTIONS.** The Carnegie Corporation of New York, \$25,000 for research work in the scientific depts. The Commonwealth Government of Australia, a grant of £7500 p.a. for 5 years to enable the Univ. to appoint research scholars and fellows.

**NEW DEVELOPMENTS.** A Board of Studies in Divinity established and By-laws providing for award of degrees of B.D. and D.D. approved.

**VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES.** The following were granted leave of absence during 1937 to visit other Univs. in Gt. Britain and the U.S.A.: Profs. E. R. Holme (English Lang.), J. C. Earl (Organic Chem.), W. A. Miller (Civil Engin.).

**NEW EDUCATION CONFERENCE.** During August 1937, the New Education Fellowship Conference was held at the Univ. The following were admitted to the degree of M.A. *ad eundem gradum*: Pierre Bovet, Director, J. J. Rousseau Institute for Educational Sciences, Geneva; Herbert Russell Hamley, Prof., Institute of Education, Univ. of London; Ernest Gideon Malherbe, Director, National Bureau of Education, Pretoria, S. Africa; Cyril Norwood, President, St. John's Coll., Univ. of Oxford.

**DENTAL CONGRESS.** The Ninth Congress of the Australian Dental Assn. opened at the Univ. on Aug. 16, 1937 by H.E. the Governor, Lord Wakehurst.

**RETIREMENTS AND RESIGNATIONS.** H. V. D. Baret (Medicine); W. J. Bradley (Commerce); I. Clunies Ross (Veterinary Science); W. Moppett (Cancer Research); Professor T. G. B. Osborn (Botany); E. D. Roper (Law); Professor W. J. Woodhouse (Greek).

**STUDENTS (1937).** Matriculated, 2951; post-graduate, 55; non-matriculated, 402; less duplications, 30.

**DEGREES.** B.A., 152; M.A., 13; B.Ec., 35; LL.B., 41; B.Sc., 76 M.Sc., 6; D.Sc., 2; B.E., 32; M.E., 1; B.Arch., 7; B.Sc.Agr., 8; M.Sc.Agr., 2; D.Sc.Agr., 1; B.V.Sc., 30; D.V.Sc., 1; M.B., 84; B.S., 75; M.D., 4; M.S., 2; Ch.M., 6; B.D.S., 17; D.D.Sc., 2.



# UNIVERSITY OF TASMANIA, HOBART

Founded 1890

VISITOR—H. E. Sir ERNEST CLARK, K.C.B., C.B.E., Governor of Tasmania.

CHANCELLOR—W. J. T. STOPS, LL.B.

VICE-CHANCELLOR—Prof. E. MORRIS MILLER, M.A., Litt.D. Melb.

REGISTRAR—A. S. PRESHAW, B.A. W. Aust.

LIBRARIAN—Prof. E. MORRIS MILLER, M.A., Litt.D. Melb.

## TEACHING STAFF

### *Accountancy and Auditing*

Hewer, A. R., F.I.C.A. Lectr.

### *Biology*

Hickman, V. V., B.A., B.Sc. Lectr.

Gordon, H. D., B.Sc., Ph.D.  
Edin. (Botany) Lectr.

### *Chemistry*

Kurth, E. E., D.Sc. Lectr.

MacLeod, P. J., B.A. N.Z. Lectr.

### *Classics*

Dunbabin, R. L., M.A. Ox. Prof.

### *Economics*

Mauldon, F. R. E., B.A., M.Ec.  
Syd., D.Litt. Melb. Prof.

Dallas, K. M., B.Com. Lectr.

Anderson, D. L., B.Com.  
Asst. Lectr.

### *Education*

Hills, W., B.A. Lectr.

Parker, H. T., M.A. Lectr.

Duncombe, C., M.B., B.S. Melb.,  
F.R.C.S. Edin. Lectr.

### *Engineering*

Burn, A., B.E. Syd., M.Sc. Prof.

Tuck, H. P., B.Sc., B.E. Adel.  
(Elec. E.) Lectr.

Schneider, W. H., B.E. Adel.,  
B.Com. (Mech. E.) Lectr.

Field, J.  
(Drawing and Design) Lectr.

### *English Lang. and Literature*

Taylor, A. B., M.A. Ox. Prof.

McShane, C. C., B.A. Lectr.

### *History*

King, C. S., M'C., M.A. Ox., B.A.  
Prof.

Lewis, G., M.A. Ox., Dip.Ed.  
Lond., B.A. (1938 only) Lectr.

### *Law*

Shatwell, K. O., B.A., B.C.L., Ox.  
Prof.

Beedham, R. N. K., LL.B. Lectr.

Osborne, R. G., B.A., LL.B. Lectr.

Wright, R. C., B.A., LL.B. Lectr.

Burbury, S. C., LL.B.  
Pt-time Lectr.

### *Mathematics*

Pitman, E. J. G., M.A., B.Sc. Melb.  
Prof.

Jaeger, J. C., B.A. Syd. and Camb.,  
B.Sc. Syd. Lectr.

### *Modern Languages*

Triebel, L. A., M.A. Lond. Lectr.

Macfarlane, C. W., B.A. Lectr.

### *Music*

Orchard, W. A., D.Mus. Durh.,  
F.R.C.M. Lectr.

### *Psychology and Philosophy*

Miller, E. Morris, M.A., Litt.D.  
Melb. Prof.

*Physics*

McAulay, A. L., M.A. Camb.,  
Ph.D. Manc., B.Sc., F.Inst.P.

Cruickshank, F. D., B.Sc. Lectr.

**Tutorial Classes**

Prof. Dallas, K. M., B.Com. Director.

**AFFILIATED RESIDENTIAL COLLEGE**

CHRIST COLLEGE. Warden—Rev. Canon W. R. Barrett, M.A., Th.L. For University and Theological students only. Accommodation, 22.

**AFFILIATED SCHOOLS**

MT. LYELL SCHOOL OF MINES AND INDUSTRIES.

HOBART TECHNICAL COLLEGE.

LAUNCESTON TECHNICAL COLLEGE.

**GENERAL INFORMATION**

Founded in 1890 under an Act of the Tasmanian Legislature, the Univ. was, in 1915, granted a Royal Charter. To the original Faculties—Arts, Science, and Law—Commerce was added in 1919 and Engineering in 1922. Music (included under the Faculty of Arts) was first taught in 1935. The Govt. grant for 1936–37 was £14,000 exclusive of £740 for Tutorial Classes. Chemistry and some Engineering subjects are taught under a joint arrangement between the Univ. and the Hobart Techn. Coll.; the Joint Board of Management received a separate grant of £4873 for these depts.

A grant of £2400 p.a. for five years was made by the Commonwealth Government from July 1, 1936, for the purpose of research work and the training of research students.

**ADMISSION OF PERSONS OF MATURE AGE.** Persons not below 25 yrs. of age who satisfy the Professorial Board that they possess sufficient qualifications for the courses they propose to pursue may be exempted from the ordinary requirements for matricn.

**LIBRARY,** 36,536 vols. and 8084 pamphlets. **LABORATORIES:** Chem., Phys., Biol.; Testing plant in Engin. Dept. Facilities for investigation in Elec. Engin. **OBSERVATORY,** 8 reflector telescope.

**DEGREE COURSES:** 3 yrs., B.A., B.Sc., LL.B. (after 1 yr. of Arts course), B.Mus.; 4 yrs., B.Com., B.Eng. **HIGHER DEGREES.** Open to Bachelors of 2 yrs.' standing, M.A., M.Sc., LL.M., M.Com.; 3 yrs., M.E., D.Sc.; to Masters of 3 yrs.' standing, LL.D. **DIPLOMAS:** Commerce, 3 yrs.' course; Public Administration, 3 yrs.' course. **DIPLOMAS** of the Affiliated Schools: Metal Mining; Metall., Chem., and Assaying.

**FEES.** Matricn., £1 : 1s.; *ad eundem statum*, £1; Admission to Degrees, including examn.: Bachelors, £3 : 3s.; Masters, £10 : 10s.; Doctors, £15 : 15s. Degree Courses (full-time) in Arts (3 yrs.), about £47; Science (3 yrs.), £52 to £63; Engin. (4 yrs.), £97; Law (4 yrs.), £71; Commerce (4 yrs.), £55 : 10s. to £60; Music (3 yrs.), £41. Courses spread over longer periods than the minima would cost more.

**UNIVERSITY EXTENSION.** Tutorial classes.

**PUBLIC EXAMINATIONS.** Intermediate and Leaving; Music (held in conjunction with other Australian Univs.).

**PUBLICATIONS.** *Calendar* (March), 2s.; *Pub. Examn. Manual* (April), 2s.

*Degree Examn. Papers* (April), 1s.; *Details Degree Examns.* (June), 6d.; *Details Public Examns.* (Sept.), 6d.; Students' Paper, *Togatus* (issued fortnightly).

## THE YEARS 1936, 1937

**BENEFACTIONS.** The Carnegie Corporation of New York, music set, value \$2500. The Electrolytic Zinc Co. of Australasia Ltd., apparatus, value approximately £950. Mr. J. W. Hamilton, endowment of £300 for a scholarship in radio science.

**NEW POST.** A Lectureship in Botany from June 1937.

**CHANGES IN REGULATIONS.** General amendment of all Statutes and Rules under the new Act. Principal change in reorganization consisted of abolishing the Board of Studies and reconstituting the Professorial Board to take over its functions.

**EXTRA-MURAL WORK.** Continued throughout Tasmania on an increased scale, the reductions in Carnegie grants being made up by the Government. Number enrolled (1936), 655; effective students, 387.

**RESIGNATION.** G. L. Doyle (Law).

**STUDENTS (1936).** Full-time: 59. Part-time: 212, including 7 graduates. Exempted from attendance: 119.

**DEGREES AND DIPLOMAS.** B.A., 16; LL.B., 2; B.Sc., 7; B.Com., 1; Dip.Ed., 5.

# UNIVERSITY OF WESTERN AUSTRALIA, PERTH

Founded 1913

VISITOR—H.E. THE LIEUTENANT-GOVERNOR.

CHANCELLOR—J. S. BATTYE, B.A., Litt.D., LL.B.

PRO-CHANCELLOR—W. SOMERVILLE.

VICE-CHANCELLOR—Emeritus Professor H. E. WHITFIELD, C.B.E.,  
B.A., B.E., M.I.E.A.

WARDEN OF CONVOCATION—E. W. GILLETT, B.A., LL.B.

ACADEMIC SECRETARY AND STUDENT ADVISER—.....

ACCOUNTANT AND CLERK OF SENATE AND CONVOCATION—R. E. PARKER,  
L.I.C.A., A.A.I.S.

LIBRARIAN—M. EVALYN WOOD, B.A.

## TEACHING STAFF

### *Agriculture*

Nichols, J. E., M.Sc. Durh., Ph.D.  
Edin.

Dean, Fac. of Agric.,  
Prof.

Stewart, A. M., B.Sc.Agric.  
Lectr.

#### Pt.-time Lecturers :

Baron-Hay, G. K., B.Sc.(Dairying).

Wickens, G. W. (Hortic.).

Gardner, C. A. (A. Bot.).

Pittman, H. A., B.Sc.Agr. Syd.  
(Plant Pathol.).

Teakle, L. J. H., Ph.D. Calif.,  
B.Sc.Agr. (Agric. Chem.).

### *Biology*

Nicholls, G. E., D.Sc. Lond.,  
A.R.C.Sc. Prof.

Serventy, D. L., Ph.D. Camb.,  
B.Sc. Lectr.

Builder, Edith, B.A., B.Sc.  
Demr.

### *Botany*

Armstrong, J. I., Ph.D., D.Sc.  
Belf. Lectr. in Charge.

Baird, Alison M., B.Sc. Asst.

Burbidge, Nancy, B.Sc. Demr.

### *Chemistry*

..... Prof.  
Tattersall, G., M.Sc. Manc., F.I.C.

(Org. C.) Assoc. Prof.

Elliott, G. A., Ph.D. Lond. Lectr.

Vallve, J. Demr.

### *Classics and Ancient Hist.*

Wood, G., M.A. Aberd. and Ox.

Assoc. Prof.

Storrs, Rev. C. E., M.A. Camb.

Pt.-time Lectr.

### *Commerce*

Pt.-time Lectrs. :

Duffy, G. W., B.A., B.Com. Lond.  
(Business Organization).

Halvorsen, H. B., A.C.A. Aust.  
(Accountancy).

### *Economics*

..... Prof.  
Shearer, J. O., M.A. N.Z. Lectr.

### *Education*

Cameron, R. G., M.A. Syd. Prof.  
9 Part-time Lectrs.

*Engineering*

Blakey, O. F., M.E. Q'ld., M.I.E.  
Aust. (Struct. E.)

Dean, Fac. of Eng.,  
Assoc. Prof.

Bowden, A. T., B.Sc.Eng. Edin.  
(Mech. E.) Assoc. Prof.

Fraenkel, P. H., B.E.E. Melb.,  
M.I.E.E., M.I.E.Aust.

(Elect. E.) Assoc. Prof.

Wiseman, W. R. B., M.Sc. Manc.  
(Hydraulics) Lectr.

Townsend, W. G. Asst. Lectr.

Hayman, W. G., B.E., B.Sc.  
Pt.-time Lectr.

McCullough, W. A., M.E.  
(Railway E.) Pt.-time

Lectr.  
2 Instrs.

*English*

[Prof.]

Murdoch, W. L. F., M.A. Melb.

Thompson, H. S., M.A.

Assoc. Prof.

King, A., M.A. Ox. Lectr.

*Forestry*

Kessell, S. L., M.Sc. Adel., Dip.For.  
Ox. Pt.-time Lectr.

*French and German*

Clarke, Margaret A., M.A. Syd.,  
D. de l'U. Paris Assoc. Prof.

Pt.-time Lectrs. :

Randall, Jean, M.A., Dip.Ed.  
Melb. (French).

Graebner, R. M. (German).

Crossley, R. G., B.A., Ph.D.  
Freib. (German).

*Geology*

Clarke, E. de C., M.A. N.Z. Prof.  
Prider, R. T., B.Sc. (on leave).

Lectr.

Miles, K. R., B.Sc. Lectr.

Carroll, Dorothy, B.Sc., Ph.D.  
Lond. Research Lectr.

*History*

Alexander, F., M.A. Melb. and Ox.  
Assoc. Prof.

Reynolds, J. H., B.A. Adel. and Ox.  
Pt.-time Lectr.

*Italian*

Vanzetti, F. Pt.-time Lectr.

*Journalism*

Birtwistle, I. T. Pt.-time Lectr.

*Law*

Beasley, F. R., B.A. Ox., LL.B.  
Syd. Dean, Fac. of L., Prof.

Pt.-time Lectrs. :

Tindal, E. (Contracts and Personal  
Property).

Blanckensee, E. (Real Property  
and Conveyancing).

Virtue, J. E., LL.M. (Torts and  
Crim. L.).

Downing, E. F. (Practice and  
Procedure).

Simpson, B. E. G. (Equity and  
Company L.).

*Mathematics*

Weatherburn, C. E., M.A. Camb.,  
D.Sc. Syd. Prof.

Storer, R., B.Sc., Dip.Ed.  
Asst. Lectr.

*Philosophy*

Fox, A. C., M.A. Syd. Assoc. Prof.  
Gibson, Q. B., B.A. Melb. Lectr.

*Psychology*

Fowler, H. L., Ph.D. Lond., M.A.  
Dean, Fac. of Arts, Lectr.

Clarke, Grace, Ph.D. Lond., B.A.,  
B.Sc. Asst. Lectr.

Kaulla, H., Ph.D. Munich  
Asst. Lectr.

*Physics*

Ross, A. D., M.A., D.Sc. Glas.,  
F.R.S.E., F.R.A.S., F.Inst.P.  
Dean, Fac. of Sci., Prof.

Shearer, J., M.Sc. Melb., B.A. Lectr.

Nimmo, R. R., M.Sc. N.Z.,  
Ph.D. Camb. Lectr.

Everson, D. W. Demr.

*Surveying*

Nunn, G. M., L.S. Pt.-time Lectr.

University Extension	Adult Education
5 Tutors for Correspondence Courses.	17 Tutors.

## AFFILIATED SCHOOLS

PERTH TECHNICAL COLLEGE ; SCHOOL OF MINES, KALGOORLIE ; MURESK AGRICULTURAL COLLEGE.

## GENERAL INFORMATION

Established by Act of the State Legislature in 1911, the Univ. opened its first session in 1913. It has a large endowment of land granted by Govt., including a site of 165 acres for buildings, and receives an annual grant. This was, in 1937, £34,500. The administration is vested in a Senate of 18 persons, of whom 6 are nominated by Govt.

LABORATORIES. Agric., Bot., Chem., Geol., Engin., Phys., Psych., Zool.

FACULTIES. Arts, Sc., Engin. (including Surveying), Law, Agriculture.

DEGREE COURSES : 3 yrs.—B.A., B.Sc., B.Agric. ; 4 yrs.—B.A. (Hons.), LL.B. and B.Sc. (Hons.) ; 5 yrs.—B.E. (a sandwich system during last 3 yrs.) and B.Surv. (including 2 yrs.' field work). First year Med. course in Fac. of Sci.

EVENING CLASSES are held in the Arts Faculty only, but certain Science classes may be taken in the evenings at affiliated Colleges.

HIGHER DEGREES. M.A., Litt.D., M.Sc., D.Sc., M.E., LL.M., LL.D.

DIPLOMAS. Education, Journalism, Commerce.

FEES. Matriculation, no fee *Ad eundem statum*, £1 : 1s. Admission to Degrees : Bachelors, £3 ; Masters, £5 ; Doctors, £10. Annual Examination Fee, 10s. per subject with maximum of £1 : 10s. No lecture fees. Laboratory deposits, £1 per subject. First Year Attendance Deposits, £1 : 1s. per subject.

Overseas students not domiciled in Australia, annual and inclusive fee of £40.

PUBLIC EXAMINATIONS. School Certifs. (Junr. and Leaving), Art Certif., Music, and Art of Speech (Elocution).

ADULT MATRICULATION. Persons who have attained the age of 25 yrs. may be admitted as matriculated students in the Faculties of Sci. and Engin., if the Faculty concerned is satisfied that they possess sufficient educational qualifications. In the Faculty of Arts a modified examination is required, open to persons who have attained the age of 23 yrs. No provision for Adult Matricn. is made in the Faculty of Law.

PUBLICATIONS. *Calendar* (Oct.) (no issue 1932, 1934 or 1935, but supplement to *Calendar* issued for 1935 and 1936) ; *Public Examn. Manual* ; *Black Swan* (Students' Magazine) ; *Pelican* (Students' newspaper, 2 or 3 times each term).

## THE YEARS 1936, 1937

NEW BUILDINGS. Construction of a new Main Library and proposed Women's Residential Hall under consideration.

NEW POSTS. Additional Lectureship in Philos. from Sept. 1937. New position of Academic Secretary and Student Adviser made from Nov. 1937.

EXTRA-MURAL WORK. Extension lectures and Adult Education Lectures

continued as in previous years. Many educational lectures broadcast by members of the Univ. Staff.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Mr. O. F. Blakey (Structural Engin.), on leave for 2nd and 3rd Terms 1936, visiting Europe and America. Dr. R. R. Nimmo (Physics), on leave for whole of 1936, studying at Cavendish Laboratories, Cambridge. Mr. W. R. Baldwin-Wiseman (Hydraulics), on leave for 3rd Term 1936 and 1st Term 1937, visiting Europe. Assoc. Prof. A. C. Fox (Philos.), on leave for 1st and 2nd Terms 1937, visiting Europe. Mr. W. G. Townsend (Engin.), on leave 2nd and 3rd Terms 1937, visiting Europe.

RETIREMENT. Prof. N. T. M. Wilsmore (Chem.), on reaching retiring age of seventy, Dec. 1937.

RESIGNATION. Prof. A. G. B. Fisher (Econ.), from Dec. 1937, on apptmt. as Price Professor of Internat. Economics (Chatham House, London).

HONORARY DEGREE. *D.Sc.Agric.*—George Lowe Sutton, Director of Agriculture.

STUDENTS. (1937) Full-time: 363, including 31 graduates. Part-time: 423, including 40 graduates.

DEGREES (1937). B.A., 56; M.A., 2; LL.B., 3; LL.M., 1; B.Sc., 13; B.Sc. (Agric.), 5; M.Sc., 1; D.Sc., 1; B.E., 13; Dip.Ed., 26; Dip.Com., 5; Dip. J., 1.

# UNIVERSITY OF NEW ZEALAND

Founded 1870

*Address*—P.O. Box 1524, Wellington, C.I.

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—Hon. J. A. HANAN, D.C.L. Durh., M.L.C.

PRO-CHANCELLOR—H. F. VON HAAST, M.A., LL.B.

VICE-CHANCELLOR—Professor T. A. HUNTER, M.A., M.Sc.

CHAIRMAN, ACADEMIC BOARD—Professor J. HIGHT, C.M.G.,

REGISTRAR—I. F. MCKENZIE, M.A., B.Com. Wellington.

AGENT IN ENGLAND—A. J. HARROP, Ph.D. Camb., M.A., 88 Gower Street, London, W.C.I.

## CONSTITUENT COLLEGES

UNIVERSITY OF OTAGO, DUNEDIN ; CANTERBURY COLLEGE, CHRISTCHURCH ; AUCKLAND UNIVERSITY COLLEGE ; VICTORIA UNIV. COLLEGE, WELLINGTON.

## ASSOCIATED COLLEGES

CANTERBURY AGRICULTURAL COLLEGE, LINCOLN ; MASSEY AGRICULTURAL COLLEGE, PALMERSTON NORTH.

This University, an examining body, was founded in 1870. Its constitution, defined by the N.Z. Univ. Act., 1908 as amended in 1912, 1914, 1915, and 1926, vests the Government of the Univ. in a Senate of 23 members, assisted, as regards schemes of study, etc., by an Academic Board representing the College Professorial Boards and a University Entrance Board, of which the Vice-Chancellor is the President, and on which there are representatives of the Academic Board, the Department of Education, and the Secondary Schools. The Senate consists of 4 members nominated by the Governor, 8 appointed by the College Governing Bodies, 5 by General Court of Convocation, 3 by the Academic Board, 1 by the Senate itself, and the Director of Education. The Chancellor, Pro-Chancellor, and Vice-Chancellor are elected by the Senate ; the first (or, in his absence, the second) presides at meetings of the Senate. Under the New Zealand University Amendment Acts of 1926 and 1928 and the Massey Agricultural College Act, 1927, Canterbury Agricultural College, Lincoln, and Massey Agricultural College, Palmerston North, were given representation on the Academic Board, and the expression "Professors of the University" includes Professors on the staffs of the two Agricultural Colleges as well as Professors on the staffs of the four Constituent Colleges. The governing bodies cannot make any appointment to a chair without the prior approval of the Senate. There are no University buildings : the offices are at Wellington.

**MATRICULATION.** Candidates must pass in 5 subjects, including English, Maths., and one language. A candidate who does not pass in Latin or



Greek must pass in Physics or Chemistry (or Home Science), or Botany or Agriculture. Not more than two of these sciences can be taken; in the syllabus prominence is given to their practical aspect. The examn. is held in Dec. Special provision is made for exemption of persons not under 21 years of age and students from other Univs.

**TERMS.** A student presenting himself for a Univ. examn. for which the keeping of terms is required must have passed the College examn. in the subjects he offers at the corresponding stage. The terms are: Autumn (March-May), Winter (June-Aug.), and Spring (Sept.-Oct. or Nov.). The subjects in which terms must be kept are: all those of the B.A., B.Sc., B.Sc. in H.Sc., M.B., Ch.B., B.D.S., B.Agr.Sc., B.For.Sc., B.Arch., and LL.B. degree courses; of the 1st and 2nd Groups of the B.Com. course; of the Engineering Intermediate examn.

Any student who is on the books of a constituent College, and who has passed its annual examn., is deemed to have kept the terms of the year if he has attended the prescribed courses, *or*, being resident more than 10 miles from College or engaged in acquiring a profession or trade or earning a livelihood, has been thereby prevented from attending, *or* objects on grounds of religious scruples to such attendance.

**DEGREE COURSES:** 3 yrs.—B.A., B.Sc., B.Mus., B.Agr.Sc. (including practical work on farm), B.For.Sc.; 4 yrs.—B.Sc. in Home Science, B.Arch. (including 18 mos.' practical work), LL.B., B.E. (Mech., Elec., Civ., Mining, Metall., including from 9 to 18 mos. in shops, mines, or surveying), B.Com., B.Vet.Sc.; 4½ yrs.—B.D.S.; 6 yrs.—M.B., Ch.B., B.Med.Sc.

**HIGHER DEGREES.** M.A., M.Sc., LL.M., M.Com., M.S.; Litt.D., D.Sc., LL.D., M.D., D.D.S., D.Mus. For the Mastership examn. and thesis are required. The Doctorate may be taken by a Bachelor of 5 yrs.' (in Med. 3 yrs.) standing who offers suitable original work and, if in Arts, Sc., or Law, has already obtained the Mastership or equivalent degree, or, if in Med. or Music, passes a prescribed examn.

**DIPLOMAS.** Public Health. (9 mos.' course); Journalism, Education, Social Science, Banking, Insurance, Fine Arts. *Certificate* of Proficiency in Dental Surgery, Shipping Officers' *Certificate*.

**PROFESSIONAL AND TECHNICAL SCHOOLS.** *Law and Commerce* at all the constituent Colls.; *Medical and Dental and Home Science* at Otago; *Engineering* (Civil, Electrical, and Mech.) at Canterbury and Auckland; *Mining and Metallurgical Engineering* at Otago; *Music* at Auckland, Canterbury, and Otago; *Agric.* at Lincoln and at Palmerston N. (Massey College); *Architecture* at Otago and Auckland; *Fine Arts* at Canterbury.

**"AD EUNDEM" RECOGNITION.** Courses completed, or partially completed, at any British chartered or other approved Univ. are accepted *ad eundem*.

**SCHOLARSHIPS FOR GRADUATES.** In almost every subject of the B.A. or B.Sc. syllabus and in Law, Medicine, Dentistry, and Engineering—£70; Travelling Schol'ps. in Arts, Science, French, Law, Architecture—£200 (2 yrs.) each, in Engin. and Med.—£150 each; Macmillan Brown Research Schol'p. in Agr. (biennial)—£200 (2 yrs. possible). Four National Research Scholarships (£100) are offered annually to graduates of the N.Z. University or other approved persons; also Shirlcliffe Fellowship for Research, £250 p.a. for 2 yrs.; Shirlcliffe Research Scholarship, £100 (1 yr.); Shirlcliffe Graduate Bursary, £75 (1 yr.). 2 Carnegie Fellowships in Education.

Four first-class return passages to England are granted annually to graduates proceeding to Europe to continue their studies.

ADULT EDUCATION. Classes are conducted under the control of the Council of each College through an Executive Committee on which the Council and the W.E.A. are represented. The Government granted £4569, divided equally among the Constituent Colleges for general or specific purposes.

PUBLICATIONS. *Calendar* (Oct.), 3s. (incl. postage); *Minutes of Prods. of Senate*, free; *Examn. Papers*, 6d. or 1s. a set.

## THE YEAR 1936

No annual grant has been paid by the Govt. for the last seven years.

CHANGES IN REGULATIONS. Revision of law course.

DEATHS. Sir Francis H. D. Bell, P.C., G.C.M.G., B.A. (Camb.), seven years member of College Council. Mr. W. B. Montgomery, C.B.E., member of Senate and Hon. Treasurer.

STUDENTS. Full-time: 1801, including 188 graduates. Part-time: 2676, including 281 graduates.

DEGREES. B.A., 206; M.A., 97; B.Com., 73; M.Com., 9; LL.B., 40; LL.M., 7; B.E., 20; B.Sc., 86; M.Sc., 31; B.Agr.Sc., 11; M.Agr. Sc., 2; B.H.Sc., 6; M.B., Ch.B., 38; M.D., 1; B.D.S., 13; Mus.B., 4.

# UNIVERSITY OF OTAGO, DUNEDIN

Founded 1871

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—W. J. MORRELL, M.A. Ox.

VICE-CHANCELLOR—L. DEANS RITCHIE.

REGISTRAR—H. CHAPMAN, B.A.

LIBRARIAN—W. J. HARRIS, B.A. Ox.

LIBRARIAN MED. SCH.—W. J. MULLIN, M.B., Ch.B., F.R.C.S.

## TEACHING STAFF

### *Accountancy*

Thomas, A., M.Com. Lectr.  
2 Tutors.

### *Anatomy*

Gowland, W. P., M.D., B.S. Lond.,  
F.R.C.S. Eng. Prof.

### *Architecture*

Miller, E., A.R.I.B.A. Lectr.  
Scoular, S. G., B.E.  
(Descr. Geom.) Lectr.

### *Biology*

Marples, B. J., M.A. Ox., M.Sc.  
Manc. Prof.  
Fyfe, Marion L., M.Sc. Asst.

### *Botany*

Holloway, Rev. J. E., D.Sc.,  
F.R.S. Lectr.

### *Chemistry*

Soper, F. G., Ph.D., D.Sc. Wales [Prof.  
Carter, C. L., M.Sc., A.I.C. Lectr.

### *Classics*

Adams, T. D., M.A. Prof.  
Turnbull, Mary I., M.A. Asst.

### *Dentistry, v. infra*

### *Economics*

Souter, R. W., M.A., Ph.D. Col-  
umbia Prof.  
Billing, G. C., B.A. Adel. Lectr.

### *Education*

Lawson, R., M.A., Litt.D. Melb. [Prof.

Glasgow, K. W. R., M.A., M.Sc.

Asst.

### *English Lang. and Lit.*

Ramsay, H., M.A. St. And. Prof.  
Cameron, G. M., M.A. Asst.

### *Ethnology*

Skinner, H. D., M.A., Dip.Anth.  
Camb., B.A. Lectr.

### *Geology and Mineralogy*

Benson, W. N., B.A. Camb., D.Sc.  
Syd., F.G.S. Prof.  
Dean, Fac. Arts & Sci.  
Turner, F. J., D.Sc., F.G.S. Asst.

### *Hebrew*

Hunter, S. F., M.A., B.D. Glas.,  
D.D. Melb. Lectr.

### *History*

Elder, J. R., C.M.G., M.A., D.Litt.  
Aberd. Prof.  
McClymont, W. G., M.A. Asst.  
Woods, N. S., M.A. Asst.

### *History, Constitutional*

Lang, J., M.A., LL.B. Lectr.

### *Home Science*

Strong, Ann G., O.B.E., B.Sc.  
Columbia Dean and Prof.  
Gregory, Elizabeth, Ph.D. Lond.,  
M.H.Sc. Lectr.  
Bowbyes, Avicé M., B.S. Columbia,  
Dip. H.Sc. Lectr.  
5 Assts.

*Law*

Lecturers :

- Stephens, A. C., LL.M. (Jurispr.).  
Dean, Fac. of Law.  
Neill, A. G. (Crim. Law).  
Thomson, J. B., LL.B. (Contracts).  
Cook, H. L., LL.B. (Trusts, etc.).  
Anderson, P. S., B.A., LL.B. (Property L.).  
Ward, J. P. (Practice and Proc.).  
Hanan, F. M., LL.M. (Torts).  
Paterson, J. M., M.C., M.A., LL.B. (Accountancy L.) Dean, Com. Fac.  
Fairmaid, R. L. (Conveyancing).  
White, C. J. L. (Evidence).  
Haggitt, A. N., LL.B. (Rom. Law).  
Barrowclough, C. B., B.A., LL.B. (Conflict of Laws).  
Curzon-Siggers, W. A., LL.M. Camb., M.A. (Pub. Intern. L.).  
McIver, L. D. (Auditing).

*Mathematics, Pure and Applied*

- Bell, R. J. T., M.A., D.Sc. Glas. Prof.  
Orton, A. A., B.A., M.Sc. W. Aust. Beverly Lectr.

*Metallurgy and Assaying*

- Black, H. Lectr.

*Mining*

- Andrew, A. R., D.Sc., F.G.S., M.Am.I.M.E. Dean and Prof.  
Batham, G. S., B.Sc. (Appl. Elect.) Lectr.

*Modern Languages*

- Thompson, G. E., M.A., Litt.D., O.A. Prof.  
Barron, Vida M., M.A. Asst.  
r Tutor.

*Music*

- Galway, V. E., Mus.D. Melb. Lectr.

*Philosophy, Ment. and Moral*

- Findlay, J. N., M.A. Ox. and S. Africa, Ph.D. Graz. Prof.

*Physics*

- Jack, R., M.A., D.Sc. Glas., Ph.D. Gøtt. Prof.  
Focken, C. M., B.M.E., B.Sc. Melb., D.Phil. Ox., M.S. Col., F.Inst.P.  
Beverly-Mackenzie Lectr.  
Blackie, Agnes R., M.Sc. Asst.

*Physiology*

- Malcolm, J., M.D. Edin. Prof.  
Bell, M. E., M.D. Lectr.  
Edson, N. L., M.B., Ch.B., B.Med. Sc., Ph.D. Camb. Lectr.

*Psychology, Experimental*

- Ferguson, H. H., M.A. St. And. Lectr.

*Medicine*

- (for subjects of the first 2 yrs.—  
Anat., etc., v. *supra*)

*Anæsthetics*

- Whyte, Marion K. B., M.B., Ch.B. Lectr.

*Bacteriology and Pub. Health*

- Hercus, C. E., D.S.O., O.B.E., M.D., B.D.S., D.P.H. Dean, Fac. of Med., Prof.  
Davies, K. J. H., L.M.S.S.A. Lond. Asst.

*Diseases of Children*

- Williams, E. H., M.B., Ch.B., M.R.C.S. Lectr.

*Ear, Nose, and Throat*

- Ross, K., M.A., M.B., C.M., D.P.H. Lectr.

*Gynæcology, v. Midw. and Gyn.*

*Medical Jurisprudence*

- D'Ath, Prof. E. F., M.B., Ch.B. Lectr.

*Medicine*

- Carmalt-Jones, D. W., M.A., D.M. Ox., F.R.C.P. Lond. Mary Glendining Prof.

*Medicine, Clinical*

- Fitchett, F. W. B., M.D., C.M. Edin., M.R.C.S. Prof.

Carmalt-Jones, Prof. D. W. Lectr.  
 Moore, S.A., M.D. Edin., B.A. Lectr.  
 Burns, C. R., M.D., M.R.C.P.

Asst. Lectr.

Iverach, J. A. D., M.C., B.A.,  
 M.B., Ch.B., F.R.C.P.E.

Asst. Lectr.

Porteous, W. J., M.D., F.R.C.S.E.

Asst. Lectr.

Borrie, W. H., M.B., Ch.M. Edin.

Asst. Lectr.

And Hon. Staff of Dunedin Hospl.

### *Mental Diseases*

Hayes, H. D., M.D. Edin. Lectr.

### *Midwifery and Gynæc.*

Dawson, J. B., M.D., B.S. Lond.,  
 F.R.C.S., L.R.C.P. Prof.

Ritchie, R. I., M.B., Ch.B.,  
 M.R.C.S., L.R.C.P.

(Obstet.) Tutor.

Fitzgerald, G. P., M.B., Ch.B.

(Clin. Gynæc.) Asst. Lectr.

Perry, A., M.B., Ch.B., F.R.C.S.

(Gynæc.) Tutor.

### *Ophthalmology*

Carswell, W. E., M.B., Ch.B.,  
 F.R.C.S., L.R.C.P. Lectr.

### *Ophthalmology, Clinical*

Asst. Lectrs. :

Cottrell, A. J., M.A., M.Sc., M.B.,  
 Ch.B.

Geerin, S. L., M.B., Ch.B.,  
 D.O.M.S.

### *Pathology*

D'Ath, E. F., M.B., Ch.B. Prof.  
 Chapman, Eileen N., M.B., Ch.B.

Liv. Asst.

Watt, M. N., M.B., Ch.B.

Clin. Pathologist.

### *Pharmacology and Therap.*

Fitchett, Prof. F. W. B. (v. also  
 Med. Clin.) Lectr.

Iverach, J. A. D., M.C., B.A.,  
 M.B., Ch.B., F.R.C.P. Edin.  
 Asst.

### *Radiology*

MacVicar, W., M.D. Manlt.,  
 F.R.C.S.E. Lectr.

Barclay, Ruth M., M.B., Ch.B.,  
 D.M.R.E. Edin. Lectr.

### *Surgery*

Bell, F. Gordon, M.D. Edin.,  
 L.R.C.P., F.R.C.S.

Ralph Barnett Prof.

Assts. :

White, J. R., M.B., Ch.M., F.R.C.S.  
 Barnett, G. M. F., M.B., Ch.B.,  
 F.R.C.S.

Fulton, R. A. H., M.B., Ch.B.,  
 F.R.C.S. (and Clin. Tutor).

### *Surgery, Clinical*

Lectrs. :

Jenkins, J. A., M.B., Ch.M.,  
 F.R.C.S.

Fergus, T., M.B., Ch.B., F.R.C.S.E.

Asst. Lectrs. :

Greenslade, C. M., M.B., Ch.B.,  
 F.R.C.S.

Speight, N. C., M.B., Ch.B.,  
 F.R.C.S.E.

Fitzgerald, H. W., M.B., Ch.B.,  
 F.R.C.S.E.

And Hon. Staff of Dunedin Hospl.

### *Dentistry*

Dodds, R. B., D.D.S.

Dean and Prof.

Burt, J. R., L.D.S., R.C.S. Edin.  
 Assoc. Prof.

### *Adult Education*

Director—Prof. R. W. Souter.

9 Lecturers to W.E.A. Classes.  
 Home Science Extension, 5 Tutors.

## GENERAL INFORMATION

Founded by Ordinance of the Provincial Council in 1869 with power to grant degrees in Art, Medicine, and Law, the Univ. was opened in 1871. The Law School originated in 1873, the Medical in 1874, the School of Mines in 1878, the Dental School in 1907, the Accountancy Lectures and the Home Science Dept. in 1911. Between 1869 and 1877 the Univ. received grants of land exceeding 220,000 acres. It is entirely unconnected with any religious denomination except that the right of nomination to certain Chairs endowed by the Presbyterian Church rests with the Board of Church Property, subject to the approval of the Synod. It receives annual Government grants of approximately £20,000.

By an agreement effected in 1874 the Univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of N.Z.

**LIBRARIES.** Main Library, including Departmtl. Libraries, 35,000 vols. ; Med. Library, 10,000 vols. ; also the Hocken collection of pamphlets and MSS. bearing on the History of N.Z. **MUSEUMS :** Biol., Ethnog., Geol., Anat., Path. **LABORATORIES :** Phys., Chem., Physiol., Bact., Path.

**FACULTIES.** Arts and Science, Medicine, Dentistry, Mining, Law, Commerce, and Home Science.

**COURSES.** Degree courses in all Faculties (*v.* also p. 606). Certificate in Dental Surgery, 4 yrs. Associateship of Otago School of Mines (A.O.S.M.), 4 yrs. Associateship in Home Science, 3 yrs. Diploma of Mining, Metallurgy, Geology or Land and Mine Surveyor, 2 yrs. Diploma in Public Health, open to registered medical practitioners of 2 yrs.' standing.

**CLASS FEES.** In separate subjects—in Arts generally, £5 : 5s. for complete course ; Science, £8 : 8s. ; Law from £1 : 15s. to £5 : 5s. ; Commerce, £1 : 10s. to £5. Medicine, all subjects aggregate (6 years), about £218, exclusive of Univ. fees, £37 : 16s. ; Dentistry (4½ years), £180, exclusive of Univ. fees, £24 ; Mining (4 years), £136 ; 15s. ; Home Science (4 years), £128 : 4s.

**RESEARCH SCHOLARSHIPS, ETC.** Edmond Industrial (Chemical) Research, £200, tenable 2 yrs. ; Smeaton Research in Experimental Science, £60 for first year and £200 for second. The first is open to any person domiciled in N.Z., the second to graduates of Otago. Ross (Knox College), £150, 2 yrs. ; Sir R. Stout (Economics), £50 ; and Anna P. Stout (Economics and History and Home Science—women), £50 ; all open to graduates of Otago. **OTHER RESEARCH FUNDS :** Roberts, Sir Lindo Ferguson, and Barnett endowments, slightly exceeding £2000 each for research in med. and surg.

**HOSTELS.** Presbyterian for men and women ; Anglican for men ; Home Science Students'. Cost of board and lodging, 30s. to £2 a week.

**UNIV. EXTENSION.** Since 1916 classes in connexion with the W.E.A. in Dunedin and Invercargill have met with very great success.

**EXTRA-MURAL WORK.** The Home Economics Extension work is combined with the Cultural extension work carried on by Canterbury Coll., Christchurch, under an association known as the A.C.E. (Association for Country Education), controlled jointly by Canterbury Coll. and the Univ. of Otago. This permits of the Cultural and the Home Economics Extension work being provided in both provinces.

## THE YEARS 1936, 1937

**BENEFACTIONS.** Dunedin Savings Bank, £500 for provision of travelling expenses for postgraduate students of Dentistry.

NEW BUILDINGS. New clinical lecture theatre erected in connexion with the Medical School at cost of approx. £4000; a second theatre in course of erection at cost of approx. £8000.

RETIREMENT. Sir Henry Lindo Ferguson, Lectr. in Ophthalmology, 1886-1909 and Professor 1909-1937, also Dean of Fac. of Med. 1914-1937.

STUDENTS. Full-time: 904, including 57 graduates. Part-time: 472, including 60 graduates.

DEGREES OBTAINED. B.A., 46; M.A., 23; B.Com., 9; M.Com., 1; LL.B., 7; LL.M., 1; B.Sc., 25; M.Sc., 10; D.Sc., 1; B.H.Sc., 5; M.H.Sc., 1; B.E., 2; Mus.B., 2; M.B., Ch.B., 39; M.D., 3; B.D.S., 16.

# CANTERBURY UNIVERSITY COLLEGE, CHRISTCHURCH

Founded 1873

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—CHRISTOPHER THOMAS ASCHMAN.

RECTOR—Prof. JAMES HIGHT, C.M.G., M.A., Litt.D.

REGISTRAR—C. C. KEMP, A.R.A. N.Z., F.C.S. N.Z.

LIBRARIAN—C. W. COLLINS, M.A.

## TEACHING STAFF

*Accountancy*, v. also Law

Holland, C. C., F.P.A. N.Z.,  
F.I.A.N.Z. Lectr.

Perkins, C. H., B.Com., A.P.A.N.Z.  
Asst. Lectr.

Henry, J. A., B.Com., A.R.A.N.Z.  
Asst.

### *Art*

Wallwork, R., A.R.C.A. Lond.  
Lectr. (A. & Hist. of A.)  
& Director Sch. of Art.

### *Biology*

Percival, E., B.Sc. Leeds (Dean  
Fac. Sc.) Prof.

Foweraker, C. E., M.A., F.L.S.  
(Bot.) Lectr.

Heine, E. M., M.Sc. Lectr.

Bleakley, M. C., M.Sc. (Zool.)  
Demr.

### *Botany*, v. *Biology*

### *Chemistry*

[Prof.  
Denham, H. G., D.Sc. Liv., Ph.D.  
Heid., M.A., M.Sc., F.I.C.

Packer, J., M.Sc. Melb. Lectr.

Parton, H. N., Ph.D. Lond., M.Sc.  
Asst. Lectr.

1 Pt.-time Demr., 2 Student Assts.

### *Classics*

Pocock, L. G., M.A. Lond. Prof.

Broadhead, H. D., M.A. Camb.,  
B.A., Litt.D. Lectr.

### *Economics*

Tocker, A. H., M.A. (Dean Fac.  
Com.) Prof.

Lawn, G., M.A. Lectr.

### *Education*

Field, H. E., Ph.D. Lond., M.A.  
Prof.

Maginess, D., M.A. Lectr.

### *Engineering*, v. *infra*

### *English Lang. and Lit.*

Sinclair, F., M.A. Prof.

Rhodes, H. W., M.A. Melb. Lectr.

### *French and German*

Malthus, C., M.A., Litt.D. Prof.

White, J. F. D., B.A., M.Sc.  
(French) Lectr.

### *Geography*

Jobberns, G., M.A., D.Sc. Lectr.

### *Geology*

Allan, R. S., M.Sc., Ph.D. Camb.  
Lectr.

### *History and Political Science*

Hight, J., C.M.G., M.A., Litt.D.  
Prof.

Candy, Alice M. F., M.A. Lectr.

Wilson, G. T. J., B.A. Camb.,  
M.A. Asst. Lectr.

### *Journalism*

Henderson, A. G., M.A. Lectr.



<i>Law</i>	Banwell, C. J., M.Sc.	Asst.
Lecturers, Pt.-time :		
Gresson, K. M., LL.B. (and Accty. L.) (Dean).	<b>Engineering</b>	
Gee, L. W., LL.M.	<i>Civil</i>	
Brassington, A. C., LL.B.	Cull, J. E. L., B.Sc. Eng.	Prof.
Cuthbert, R. A., B.A., LL.B. (Accty. L.).	Lecturers :	
Brown, A. W. (and Accty. L.).	Calvert, G. G., M.I.Struct.E., M.N.Z.S.C.E.	
Archer, K. G., LL.B.	Barnett, C. O., M.T.P.I.	
Haslam, A. L., LL.M., Ph.D., B.C.L. Ox.	<i>Electrical</i>	
Wills, E. P., B.A., LL.M., M.Com.	Powell, P. H., M.Sc. Manc., M.Eng. Liv., M.I.E.E.	
<i>Mathematics</i>	Dean, Fac. Engin., Prof.	
Saddler, W., M.A., D.Sc. St. And., B.A. Camb.	Pollard, T. R., A.A.I.M.E. Lectr.	
Darwin, L. J., M.A. Adel.	Wright, W. S., B.E. Temp. Demr. (Relieving).	
<i>Music</i>	<i>Mechanical</i>	
Bradshaw, J. C., Mus.D. Manc., F.R.C.O., L.R.A.M., A.R.C.M. (Dean)	Steele, S., B.Sc.Mech.Eng.	Prof.
<i>Philosophy, Mental and Moral</i>	Lush, A., B.E.	Lectr.
Sutherland, I. L. G., Ph.D. Glas., M.A. (Dean, Fac. Soc. Sc.)	Burrell, G. J., B.E. (Mech)	Asst. Lectr.
Prof.	Bamford, P. G., B.E. Testing Engr.	
Popper, K., Ph.D. Vienna	<b>Adult Education</b>	
Lectr.	Director : H. E. Field, Ph.D. Lond., M.A.	
<i>Physics</i>	Staff-Tutor (W.E.A.) : Johnson, J., M.A.	
White, F. W. G., Ph.D. Camb., M.Sc.	Travelling Tutor : Alley, G. T., M.A.	
Macleod, D. B., M.A., D.Sc.		
Lectr.		

## GENERAL INFORMATION

Created by Provincial Ordinance, 1873, and affiliated to the Univ. of N.Z., 1874. Value of lands, buildings, equipment, etc., over £1,015,000, including £507,376 for the High Schools, School of Art, Museum, and Public Library controlled by the Council. Annual Govt. subsidies and grants, £9940 for College. The *Rector* is the academic head of the College and the permanent Chairman of the Professorial Board. LABORATORIES : Biol., Chem., Engin., Phys., Educational Psychology.

DEGREE COURSES in Arts, Science, Mus., Com., and Engin. (v. also p. 606), and Certif. or Diploma courses in Journalism, Education, Banking, Fine Arts, and Social Science. Evening courses in Mech. and Elec. Engin. and Com.

CLASS FEES. Per session in each subject in Arts or Science, 5 gs. ; Laboratory Research, 8 gs. ; Law and Commerce subjects, 2 to 4 gs.

HOSTELS. Rolleston House (men) ; Helen Cannon Hall (women).

SCHOLARSHIPS include one of £50 for one yr., open to students in their 3rd yr. ; one of £50 annually, tenable for 3 yrs., to entrants ; one of £50 for 2 yrs.

for students not yet eligible for final section of B.A. ; 4 of £50 for 3 yrs. for residents in the four Univ. districts of N.Z. ; one of £85 for 4 yrs. to a pupil of Nelson Boys' Coll. for the B.Sc. and M.Sc. degrees ; 2 of £25 or £45 for 3 yrs. ; one of £50 for research in Science, open to graduates, renewable up to 3 yrs. ; one of £150 p.a. for 2 yrs. plus £38 for travelling, tenable at Royal Holloway Coll., England ; one of £150 in Engineering, open to B.E., tenable outside N.Z. ; one (Hartley) for women graduates, offered every third year, £300 p.a. for 3 yrs. tenable ordinarily at Oxford, Cambridge, or London. There is a Students' Loan Fund of £1000.

PUBLICATIONS. *Calendar and Commemoration Day Address* (March). *Annual Statement of the Chairman* (June). *Canta*, 26 issues a year, subscription 2s. 6d. *Review*, annual (Oct.). *Annual Report, Trans. of Coll. Engineering Soc.*, 2s. 6d.

## THE YEAR 1936

BENEFACTIONS. Canterbury Chamber of Commerce, £100 towards the upkeep of the Economics Dept. Carnegie Corporation of New York, £1200 for continuation of extension work in rural districts, £100 for purchase of hampers and books, and College Music Set of books, photograph and records valued at \$2550. Mrs. J. S. Alabaster, £100 to found the Alabaster Knowles Prize in Music. Lady Kinsey—Tools and equipment for School of Engineering ; collection of minerals for Dept. of Geology ; painting "Circle of Harmony" for College ; lantern slides dealing with Antarctic expeditions, early Alpine exploration in New Zealand and early views of Christchurch. Folios of cuttings and architectural tracings for School of Art. Books for Library.

VISITORS TO THE COLLEGE. Dr. R. E. Priestley, Vice-Chancellor, Univ. of Melbourne ; G. E. Nicholls, Univ. of Western Australia ; Mr. Kenneth Lindsay, Civil Lord of the Admiralty ; Mr. Duncan Hall of the Secretariat of the League of Nations ; the Archbishop of Northern Ireland ; Rev. C. F. Andrews, M.A., Vice-President in Rabindranath Tagore's Institutions, Bengal, India, and Fellow of Pembroke Coll., Cambridge ; Miss Bena Addi, India ; Miss Gertrude Drayton, Secretary of Central Executive of Victoria League ; and two distinguished graduates of the College from Geneva—Mr. E. J. Riches of the Economic Section of the International Labour Office, and Dr. J. B. Condliffe of the Economic Section of the League of Nations Secretariat (Professor of Commerce, Univ. of London).

EXTRA-MURAL WORK. Extension work—Carnegie Corporation.

RETIREMENTS. Prof. J. Shelley (Hist. of Art) ; Prof. C. C. Farr, F.R.S. (Physics).

STUDENTS. Full-time, 424. Part-time, 589. Extra-mural students, 112.

DEGREES OBTAINED (1936). B.A., 69 ; M.A., 25 ; B.Com., 9 ; M.Com., 5 ; B.E., 18 ; LL.B., 4 ; B.Sc., 21 ; M.Sc., 19 ; D.Sc., 1 ; Dip. in Banking, 3 ; Dip. in Edn., 6 ; Dip. in Fine Arts, 2 ; Dip. in Journalism, 1 ; Dip. in Soc. Sci., 6.

# AUCKLAND UNIVERSITY COLLEGE

Founded 1882

VISITOR—THE MINISTER OF EDUCATION.

PRESIDENT OF COUNCIL—H. J. D. MAHON. B.A.

VICE-PRESIDENT OF COUNCIL—A. H. JOHNSTONE, K.C., B.A., LL.B.

REGISTRAR—.....

LIBRARIAN—ALICE E. MINCHIN, B.A.

## TEACHING STAFF

<i>Accounting, etc.</i>	Rodwell, H. R., M.A.	Lectr.
Holt, L. W., M.Com.	<i>Education</i>	
Lectr. (in Charge).	Fitt, A. B., Ph.D. Leip., M.A.	
Kay, R. M., B.Com.		Prof.
McElroy, R. G., LL.B., Ph.D. Lectr.	Thompson, A. B., M.A., Dip. Ed.	Lectr.
<i>Architecture</i>	<i>Engineering</i>	
Knight, C. R., B.Arch., M.A.	Lamb, S. E., B.Sc. Lond., A.R.C.S.	
Liv., A.R.I.B.A.	Eng. (Applied Mechanics,	
Crookes, S. I.	etc.)	Director, Prof.
Chisholm, A. M., A.R.I.B.A.	Dawson, C. (Elec. E., etc.)	Lectr.
	McLaren, E. J. R.	
	Demr. & Asst. Lectr.	
Turkington, Jas. (Art) Lectr.	Jebson, W. N.	
<i>Botany</i>	Demr. & Asst. Lectr.	
Lancaster, T. L., M.Sc.	<i>English</i>	
Hd. of Dept., Lectr.	Sewell, W. A., B.A. Leeds and Ox.	
Wakelin, K. Joyce, M.Sc. Demr.		Prof.
<i>Chemistry</i>	Ardern, P. S., B.A. Ox., M.A.	
Worley, F. P., D.Sc. Lond., M.A.,		Lectr.
M.Sc., D.I.C., F.C.S.	<i>Geology</i>	[Prof.]
Robinson, R. A., M.Sc., Ph.D.	Bartrum, J. A., M.Sc., A.O.S.M.	
Birm., A.I.C.	Searle, E. J., M.Sc.	Demr.
Briggs, L. H., D.Phil. Ox., M.Sc.		
	<i>Hebrew</i>	
<i>Classics</i>	Ranston, H., M.A., Litt.D.	Lectr.
Cooper, C. G., M.A. St. And. Prof.	<i>History</i>	
Blaiklock, E. M., M.A.	Rutherford, J., M.A. Durh., Ph.D.	
Algie, D. L., M.A.	Mich.	Prof.
<i>Dental Mechanics</i>	Airey, W. T. G., M.A.	Lectr.
Kinnear, J. S.	<i>Journalism</i>	
	Melville, R. H., B.A.	Lectr.
<i>Economics</i>		
Belshaw, H., Ph.D. Camb., M.A.		

*Law*

Algie, R. M., LL.M. Prof.  
 Munro, L. K., LL.M. Asst. Lectr.  
 Goodall, S. I., LL.M. Asst. Lectr.  
 Goulding, A. M., LL.B. Asst. Lectr.  
 Tuck, W. R., LL.M. Asst. Lectr.

*Mathematics*

Forder, H. G., B.A. Camb. Prof.  
 Bullen, K. E., M.A., B.Sc. Lectr.

*Modern Languages*

Walker, M., M.A., B.Com. Prof.  
 Miller, Dora L., M.A., Cert. Assn.  
 Phon. Internat. (Paris) Lectr.

*Music*

Hollinrake, H. Prof.

*Philosophy*

Anderson, W., M.A. Glas. Prof.  
 Anschutz, R. P., M.A. Lectr.

*Physics*

Burbidge, P. W., B.A. Camb.,  
 M.Sc. Prof.  
 Brown, D., D.Sc. Lectr.  
 Sagar, F. H., M.Sc. Lectr. & Demr.

*Zoology*

McGregor, W. R.  
 Hd. of Dept., Lectr.  
 Moore, Miss L. B., M.Sc. Demr.

*Adult Education*

Director : . . . . .

## GENERAL INFORMATION

Established by Act of the N.Z. Legislature in 1882, the College was affiliated to the Univ. of N.Z. in 1883. It received in 1885 an endowment of 30,000 acres of land, of which one-third was sold in 1915 for £10,246. It receives an annual grant of £18,000.

Of the 14 members of the College Council 3 are appointed by the Governor, 2 by the Prof. Board, 1 by local bodies, 4 are elected by the graduates, 3 by the Auckland members of the General Assembly, and 1 by the Education Bd. Legislation was passed in 1923 permitting of the appointment of a Principal to the College.

COURSES are provided for the degrees of the Univ. in Arts, Science (including B.Sc. in Archit.), Law, Music, Commerce, and Associate of the College in Engineering (3 yrs.).

FEES. Arts, usually £3 : 3s. to £5 : 5s., Science, £5 : 5s. to £8 : 8s, Law, £2 : 2s. to £3 : 3s. per subject p.a.

PUBLICATION. *Calendar* (Feb.).

## THE YEARS 1936, 1937

NEW BUILDINGS. New building for Botany and Zoology.

EXTRA-MURAL WORK. 155 extra-mural students.

RESIGNATIONS. M. R. O'Shea, Registrar, apptd. General Secretary, N.Z. Manufacturers' Federation. H. C. McQueen, Lectr. (Education), apptd. Research Asst. N.Z. Council of Educational Research.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Prof. C. R. Knight (Archit.), Prof. Belshaw (Econ.), Prof. Rutherford (Hist.), Prof. Sewell (English).

STUDENTS. Full-time : 289, including 19 graduates. Part-time : 749, including 77 graduates.

DEGREES OBTAINED (1936). B.A., 55 ; M.A., 28 ; B.Arch., 3 ; B.Com., 17 ; M.Com., 2 ; LL.B., 9 ; LL.M., 3 ; B.Sc., 22 ; M.Sc., 6 ; Dip. Educ., 9 ; Dip. Journ., 2 ; Dip. in Music, 1.

# VICTORIA UNIVERSITY COLLEGE, WELLINGTON

Founded 1897

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—P. LEVI, M.A.

REGISTRAR—G. G. S. ROBISON, M.A.

LIBRARIAN—H. G. MILLER, M.A.

## TEACHING STAFF

### *Biology*

Kirk, H. B., M.A. Prof.  
Newman, I. V., M.Sc. Syd., Ph.D.  
Lond. Lectr. & Demr  
Palmer, C. E., M.Sc. (Zool.)  
Lectr. & Demr.

### *Chemistry*

Robertson, P. W., M.A. Ox., Ph.D.  
Leip., M.Sc. Dean and Prof.  
Monro, A. D., M.Sc. Lectr.  
& Demr.

### *Classics*

Brown, J. R., M.A. Ox. & St. And.,  
LL.D. St. And. Prof.  
Elliott, J. R., B.A. Syd., M.A.  
Camb. Lectr.

### *Economics*

Murphy, B. E., M.A., B.Com.,  
LL.B. Dean and Prof.  
Heine, Hilda G., Ph.D. Berl., M.A.  
Lectr.

### *Education*

Gould, W. H., M.A. Prof.  
Campbell, A. E., M.A. Lectr.

### *English Language & Lit.*

Gordon, I. A., M.A. Edin. Prof.  
Cochran, A. B., M.A. Ox. and  
N.Z. Lectr.

### *Geology*

Cotton, C. A., D.Sc., F.G.S. Prof.  
Sticht, J. H. Demr.

### *History*

[Prof.  
Wood, F. L. W., B.A. Syd., M.A. Ox.  
Beaglehole, J. C., Ph.D. Lond.,  
M.A. Lectr.

### *Law, English and N.Z.* [Prof.

Williams, J., Ph.D. Camb., LL.M.  
Hemery, L. C., LL.B.  
Pt.-time Lectr.  
Macarthur, Ian Pt.-time Lectr.  
Wilson, L. K. Pt.-time Lectr.

### *Law, Roman, etc.*

Adamson, J., M.A., LL.B. Edin.  
Dean and Prof.  
Hain, C. H., LL.B. Asst. Lectr.  
Scott, C. E., LL.M. Asst. Lectr.

### *Mathematics*

Miles, F. F., M.A. Ox. and N.Z.,  
Dip. Educ. Prof.  
Campbell, J. T., Ph.D. Edin.,  
M.A. Lectr.

### *Modern Languages*

Boyd-Wilson, E. J., B.A. Camb.,  
M.A., B.Sc. Dean and Prof.  
Keys, A. C., M.A., D. de l'U. Paris.  
Lectr.

### *Philosophy, Mental and Moral*

Hunter, T. A., M.A., M.Sc. Prof.  
Beaglehole, E., Ph.D. Lond., M.A.  
Lectr.

### *Physics*

[Prof.  
Florance, D. C. H., M.A., M.Sc.  
Peddie, G. A., M.A. Lectr.

### *Adult Education*

Director: Campbell, A. E., M.A.

### *Sarah Anne Rhodes Fellow*

Johnson, A. Hazel.

## GENERAL INFORMATION

Established by Act of the N.Z. Legislature, 1897, and affiliated to the Univ. of N.Z., 1899. Endowed by Govt. with 4000 acres. College buildings, towards which Govt. gave £31,000, were opened in 1906; additional wings for Library, etc., and for Physics erected 1921-22 at a cost of £50,000. Annual grants about £14,000.

FULL DEGREE COURSES are provided in Arts, Science, Law, and Commerce (*v.* also p. 606), and the earlier stages in other Faculties.

CLASS FEES range between 3 and 8 guineas per annum for each subject.

RESEARCH SCHOLARSHIP. J. Joseph, two scholarships of £60 for 1 yr. for original work.

RESIDENCE. Weir House provides accommodation for about 90 men students.

PUBLICATIONS. *Calendar* (Feb.); Students' Magazine published towards end of each session.

## THE YEARS 1936, 1937

STUDENTS (1936). Full-time: 173, including 14 graduates. Part-time: 674, including 62 graduates. Extra-mural students, 277. (1937) Full-time, 154, including 13 graduates. Part-time: 812, including 88 graduates. Extra mural students, 260.

DEGREES OBTAINED (May 1937). B.A., 44; M.A., 23; B.Com., 32; M.Com., 3; LL.B., 14; LL.M., 6; B.Sc., 18; M.Sc., 12; Dip. Ed., 8; Dip. Mus., 1.

# CANTERBURY AGRICULTURAL COLLEGE, LINCOLN

Founded 1896

DIRECTOR—Prof. E. R. HUDSON, B.Sc., B.Agr.Sc., Dip. C.A.C.  
(also Professor of Agriculture)

ASST. DIRECTOR—J. W. CALDER, M.Sc., B.Agr.Sc., Dip. C.A.C.

## TEACHING STAFF

Lecturers :	Flay, A. H., B.Sc., M.Agr.Sc., Dip. C.A.C.
<i>Agricultural Economics</i>	<i>Engineering</i>
Weston, I. W., M.Sc., Ph.D.	James, R. L., B.Sc., A.A.S.E.
<i>Animal Husbandry</i>	<i>Entomology</i>
Franklin, M. C., M.Sc., Ph.D. Camb., A.I.C.	Morrison, L., B.Sc. Agr. Aberd.
Sidey, D. J., B.Agr., H.D.D. Dip. C.A.C.	<i>Field Husbandry</i>
Stafford, Col. J., M.R.C.V.S.	Calder, J. W., M.Sc., B.Agr. Sc. Dip. C.A.C.
<i>Agricultural Law</i>	Blair, I. D., M.Agr.Sc.
Wills, J., LL.B.	<i>Soils and Manures</i>
<i>Agriculture and Farm Manage- ment</i>	Burns, M. M., M.Sc., Ph.D. Edin.
Bevin, R., B.Agr.Sc., Dip. C.A.C.	

## GENERAL INFORMATION

Canterbury Agricultural College, Lincoln, was founded by an ordinance of the former Provincial Government in 1870 and subsequently established by the Canterbury College and Canterbury Agricultural College Act of 1896, which placed the School of Agriculture under an entirely separate management. The new Board of Governors came into office on Jan. 1, 1897. In 1913 a university degree in agriculture was granted and the College was recognized as a School of Agriculture by the University of New Zealand. A series of amending Acts were passed between 1922 and 1927 and by the legislation passed in the latter year the College became a Constituent College of the University.

Farm of 2000 acres. Diploma course, 2 yrs., fees, 50 gs. p.a.; degree course, 4 yrs., fees, 55 gs. p.a.—both inclusive of board and tuition. LABORATORIES: Biology, Chemistry. The Wheat Research Institute (v. App. III. B. 3.). LIBRARY.

## THE YEARS 1936, 1937

DEVELOPMENT. New course on Farm Valuation and Farm Management to commence in 1938.

EXTRA-MURAL WORK. Lectures to Farmers. Unions and Young Farmers' Clubs.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. H. P. Donald, Animal Genetics Institute, Edinburgh.

RETIREMENT. Prof. F. W. Hilgendorf, Acting Director.

RESIGNATIONS. M. J. Scott (Agric. Chem. and Animal Nutrition), on apptment. as Director of Pig Husbandry, Agric. Dept., Wellington; R. J. Ballinger (Animal Husbandry), on apptment. to Inst. of Pig Husbandry, Agric. Dept., Ruakura.

STUDENTS (1937). For degree, 11, including 2 graduates. For Diploma, 36.

DEGREES OBTAINED (1936). B.Agr.Sc., 5; M.Agr.Sc., 1; College Diplomas, 12.



# MASSEY AGRICULTURAL COLLEGE, PALMERSTON NORTH

Founded 1926

PRINCIPAL—G. S. PEREN, C.G., B.S.A. Tor.

REGISTRAR—C. C. YATES.

## TEACHING STAFF

<i>Agr. Zoology</i>		Jacques, W. A., B.Sc. Wales, N.D.A. (Field Husbandry)	
Dry, F. W., D.Sc. Leeds	Lectr.		Lectr.
Tetley, J. H., M.Agr.Sc.		Clarke, E. A., B.Agr.Sc. (Sheep Management and Wool Class- ing)	Asst. Lectr.
<i>Bacteriol. and Mycology</i>	Asst. Lectr.		
Waters, R.	Lectr.		
<i>Botany</i>		<i>Poultry Husbandry</i>	
Yeates, J. S., M.Sc., Ph.D. Camb. and N.Z.	Lectr.	Kissling, J. H.	Lectr.
<i>Chemistry, Physical and In- organic</i>		<i>Soil Chemistry</i>	[Lectr.
Fife, C. V., M.Sc.	Asst. Lectr.	Hudson, A. W., B.Agr., B.Sc.	
<i>Dairy Bacteriol. and Dairy Chemistry</i>		<i>Veterinary Science</i>	
Sutton, W. G., M.Sc., A.I.C.	Lectr.	Webster, W. M., B.Sc. Edin., M.R.C.V.S.	Lectr.
<i>Dairying</i>			
Riddet, W., B.Sc. (Agr.) Glas., N.D.A., N.D.D.		<b>Research Staff</b>	
Logan Campbell Prof. of Agric.		<i>Animal Husbandry—Dairying—</i>	
McMeekan, C. P., B.Agr.Sc.		Prof. W. Riddet, B.Sc. (Agric.) Glas., N.D.A., N.D.D.; C. P. McMeekan, B.Agr.Sc.	
	Asst. Lectr.	<i>Sheep Manage- ment—</i> Prof. G. S. Peren, B.S.A. Tor.; A. C. Morton, E. A. Clarke, B.Agr.Sc.; G. S. Wilson.	
<i>Butter and Cheesemaking</i>		<i>Animal Patho- logy—</i> W. M. Webster, B.Sc. Edin., M.R.C.V.S.; B. A. Reynolds.	
Beatson, E.	Lectr.	<i>Flax (Phormium)</i>	
Sawyer, A. E.	Asst. Lectr.	—J. S. Yeates, Ph.D. Camb., M.Sc., Ph.D.	
O'Dea, J. J.	Asst. Lectr.	<i>Plant Breeding</i>	
Jensen, T. M., B.Agr.Sc.		—W. A. Jacques, B.Sc. Wales, N.D.A.	
	Asst. Lectr.	<i>Wool—</i> Prof. G. S. Peren, F. W. Dry, D.Sc. Leeds (Biol.); R. Waters (Biol.).	
<i>Economics</i>		<i>Zoology—Parasito- logy—</i> J. H. Tetley, M.Agr.Sc.	
Low, H. B., M.A.	Lectr.		
<i>Field Husbandry and Sheep Management</i>			
The Principal			
Walter Clarke Buchanan Prof. of Agric.			
Morton, A. C. (Sheep Manage- ment)	Lectr.		

## GENERAL INFORMATION

The College was establd. under the New Zealand Agricultural College Act in Sept. 1926 as the result of an agreement between Victoria Univ. Coll., Wellington, and Auckland Univ. Coll. to amalgamate their respective Schools of Agric. and to establish the new Coll. in the Palmerston North-Marton area. On July 29, 1927, an amending statute, the Massey Agricultural College Act, was passed, and the Coll. finally establd. under its present title and constitution. It is therefore "a College in connexion with the Univ. of New Zealand," and it is "deemed part of the Victoria Univ. Coll. and of the Auckland Univ. Coll."

The College Buildings consist of the Main Building, containing lecture rooms, teaching and research laboratories, library, assembly hall, studies, common rooms, etc.; the Administration Building; the Refectory and the Students' Residence.

The Coll. includes a modern dairy factory, with separate rooms for all dairy processes, etc., and equipped with small units of the latest designs of dairy factory machinery. The farm is c. 960 acres in extent, with a wide range of soil types and is devoted to sheep and dairy farming. There is also a nursery establishment for plant breeding and selection, and another devoted to research on *Phormium tenax* (N.Z. hemp).

**DEGREE COURSES, etc.** Courses are given for the B.Agr.Sc. and M.Agr.Sc., of the Univ. of N.Z. *College Diploma* courses in Dairy Farming, Sheep Farming, Poultry Farming, and Dairy Manufactures, the latter carrying the title of Associate of the Coll. There are also courses in Herd Testing and Wool Classing, and short courses in Sheep Farming and Dairy Farming.

**RESEARCH.** The College is the major centre for research in wool problems and the improvement of *Phormium tenax* (N.Z. hemp). The Dairy Research Institute (N.Z.) is located at and the Grasslands Division of the Plant Research Bureau (Dept. of Scientific and Industrial Research) is adjacent to, the College. (v. App. III. B. 3).

**FEES.** B.Agr.Sc., £88 (4 yrs.); Research students, £10 : 10s. p.a.; Farming Courses (including board), £65 p.a.; Dairy Manufactures, £10 per term; Herd Testing, £3 : 3s. per course; Wool Classing, £10 per course; short courses in Sheep Farming and Dairy Farming, £2 : 10s.

Boarding Fees for other than Farming Course students, £10 : 14s. per term.

**SCHOLARSHIPS.** Various Govt. and Univ. Scholps. are open to students.

## THE YEAR 1937

**BENEFACTIONS.** From estate of the late Mrs. M. N. Moginie, about £3000 for provision of accommodation for students and/or facilities for research. From Carnegie Corporation of New York, \$500, being first of four annual grants for purchase of books for library.

**STAFF ABSENT ABROAD FOR RESEARCH.** C. P. McMeekan, B.Agr.Sc., Asst. Lectr. in Dairy Farming, continued study at the School of Agriculture, Cambridge.

**RESIGNATION.** D. O. Williams (Agric. Econ.), on appointment as a Director of the Bank of New Zealand.

**STUDENTS.** Full-time : 66, including 1 graduate. Part-time : 117.

**DEGREES OBTAINED.** B.Agr.Sc., 7; M.Agr.Sc., 2.

# UNIVERSITIES OF THE UNION OF SOUTH AFRICA

CAPE TOWN

SOUTH AFRICA, PRETORIA

PRETORIA

STELLENBOSCH

THE WITWATERSRAND, JOHANNESBURG

**HISTORICAL SUMMARY** (originally contributed by Professor Ritchie of Cape Town and revised by Sir Carruthers Beattie, Vice-Chancellor of the University of Cape Town). The history of higher education in S. Africa covers but a comparatively short period of time. It may be said to have had its beginnings when, in 1829, the S. African College (now incorporated in the Univ. of Cape Town) was founded, as a proprietary institution, by a number of progressive citizens of Cape Town, assisted by subscribers from various parts of the country. This institution was, at its inception and for a long time afterwards, not much more than a higher-class school, but it had within it the possibilities of growth and started with very high aims. It had a very chequered history for some time, and was on more than one occasion in danger of extinction, but it gradually acquired a stronger position on ceasing to be a proprietary institution and receiving support from the public funds. For 20 years it remained the only educational establishment in S. Africa which aspired to anything beyond the range of elementary education, but in 1849 a rival College (the Diocesan) was started under the ægis of the Episcopalian Church at Rondebosch, a suburb of Cape Town. A few years later, in 1855, a somewhat similar College, St. Andrew's, was founded in Grahamstown, in the eastern part of the Cape Colony. Under the Governorship of Sir George Grey there was founded, in 1855, the Grey College at Bloemfontein in the Orange Free State, the first attempt at higher education beyond the borders of the then Cape Colony. None of these Colleges was well equipped, and most of the work done by them was school work rather than Univ. work, but they gradually acquired a growing influence and formed centres at which development was only a question of time. A very strong impetus in the direction of higher education was given in 1858 by the establishment of a Board of Examiners in Literature and Science. This Board had in view in the first instance the testing by means of examination of the competency of candidates for the Civil Service and public offices, but it soon extended its scope and started examinations on more distinctively Univ. lines, corresponding roughly to Matricn., B.A., and M.A. The competition between the existing Colleges caused by these examns. had undoubtedly a strong influence on the growth of these Colleges and the greater attention paid to subjects beyond the mere school range. This Board continued to exist until 1873, when a successful attempt was made to institute a Univ. for S. Africa. The Univ. of the Cape of Good

Hope, which was then founded, continued to exist until the beginning of 1918, when it was transformed into the Univ. of S. Africa, with its administrative seat at Pretoria. This Univ. was modelled on the lines of the London Univ., as then existing, as a purely examining body. It was governed by a Council, half of whose members were nominated by the Government, half elected by the members of Convocation. It had no constitutional connexion with the Colleges which prepared students for its examns., but the members of the Council who were elected by Convocation tended gradually to be almost entirely members of the teaching staffs of the various Colleges. In this indirect fashion the Colleges had a considerable influence on the development of the Univ. and the extension of the range and scope of its examns. Almost at the same time as the founding of the Univ. of the Cape of Good Hope there was passed by the Cape Parliament a Higher Education Act, which gave definite salary grants to the professors at recognized Colleges. This Act, together with the new impulse given to higher education by the new Univ., had a very marked influence on the development of the Colleges, which now began to increase in staff and numbers of students. The new College of Stellenbosch (afterwards the Victoria College and now the Univ. of Stellenbosch) was founded in 1874, and grew very rapidly, until it was a formidable rival of the older College at Cape Town. Other Colleges were founded also at Somerset East (Gill College) and Port Elizabeth (Grey Institute), but these had only a very short term of life. At a considerably later period, as S. Africa grew in population and wealth, other Colleges sprang into existence. A College for women (the Huguenot College) was founded at Wellington in 1898. In 1904 St. Andrew's College at Grahamstown separated its College department from its school, and the former became incorporated as the Rhodes College. In the same year a School of Mines which had been founded in 1896 at Kimberley was transferred to Johannesburg, and afterwards developed into a College for higher education generally, which is now the University of the Witwatersrand. In 1908 a Univ. College was founded at Pretoria, and in 1909 a similar College was instituted at Pietermaritzburg, Natal.

In 1904 there began a movement for the institution of a teaching, in place of the examining, Univ., and the controversy regarding the rival claims of a federal and a single-college Univ. continued for a number of years. An Inter-Colonial Conference on Univ. Education in 1908 reported in favour of a federal scheme, but nothing came of its decision. A new factor in favour of a teaching Univ. was introduced by the munificent gifts for this purpose of Mr. Alfred Beit, his brother, Mr. (now Sir) Otto Beit, and Sir Julius Wernher. In consequence of these gifts, various attempts were made by the Government to solve the knotty question of reconciling claims of the existing Colleges with the institution of one or more teaching Univs. A parliamentary committee deliberated on the subject in 1913, and a Commission was appointed in the same year and, after taking evidence, issued its report in 1914. This Commission proposed two Univs., one consisting of a federation of the S. African College and the Victoria College, the other of a federation of the remaining Colleges (Rhodes College being allowed

the choice of joining whichever federation it pleased), but the proposal led to no practical result, chiefly owing to the objection on the part of the two oldest and strongest Colleges, at Cape Town and Stellenbosch, to the loss of their independence. The problem was at length solved in 1916 by giving charters to both the S. African College and the Victoria College, and by the reincorporation of the old Univ. of the Cape of Good Hope as a federal Univ. embracing all the other Colleges under the name of the Univ. of S. Africa.

The three Acts passed by the Union of S. Africa in 1916 were to the following effect :

I. The Univ. of the Cape of Good Hope became the Univ. of South Africa, with its administrative seat at Pretoria.

II. The South African College became the Univ. of Cape Town, with which is incorporated the S. African College. Its seat is upon the Groote Schuur estate on the eastern slopes of Table Mountain.

III. The Victoria College, Stellenbosch, became the Univ. of Stellenbosch, with its seat in the division of Stellenbosch in the Province of the Cape of Good Hope.

The Faculties of the Univ. of Stellenbosch were specified originally as—Arts, Science, Education, Agric., Law, Theology, Commerce ; of the Univ. of Cape Town as—Arts, Science, Medicine, Law, Engineering, Education, to which have been added subsequently Commerce, Music, Fine Art (and Architecture). Of the Univ. of South Africa the Faculties are not defined, but permission is given to each of the constituent Colleges to establish such faculties or depts. as it may deem fit ; provided that it shall not, without the consent of the Govr.-General, apply towards the maintenance of a faculty or dept. not established at the commencement of this Act any money granted to the College from public funds. The three University Acts referred to above also made provision for the establishment of a Joint Matriculation Board and a Joint Committee for Professional Examinations, the functions of which are indicated below.

In 1922 the teaching institution at Potchefstroom was admitted as a constituent College of the University of South Africa under the name of the Potchefstroom University College.

In 1921 Parliament passed an Act, which has the effect of incorporating, with effect from March 1, 1922, as " The University of the Witwatersrand, Johannesburg," the University College, Johannesburg (formerly the S. African School of Mines and Technology, and one of the constituent Colleges of the University of S. Africa). Its Faculties are defined as Arts, Science, Medicine, Law, Engineering, Commerce, and Dentistry.

In 1923 the South African Native College at Fort Hare, established primarily for the benefit of the native races of South Africa, was incorporated under the Higher Education Act of 1923.

In 1930 Parliament passed an Act incorporating the Transvaal University College, Pretoria, as " The University of Pretoria " as from 10th October 1930. Its faculties are specified as Arts, Science, Agriculture, Law, Theology, Commerce and Public Administration, Veterinary Science, Education, Music.

Each of the five Univs. is governed by Council, Senate, and Convocation. The Senate of the Univ. of South Africa consists of the Professors and Lecturers of the constituent Colleges who are heads of such departments as are recognized by the University Council; the Senates of the Univs. of Stellenbosch, the Witwatersrand, Pretoria, and Cape Town consist in each case of the Principal or Rector, the Vice-Chancellor, two additional members of the Council appointed for a prescribed period, and the Professors. At the Univ. of the Witwatersrand two Assessor members are elected annually by the Lecturers.

A word may be said here about these five Universities in general. The single college Universities and the individual University colleges are rapidly differentiating, some into institutions predominantly English speaking and others predominantly Afrikaans speaking. Every institution does what it can to advance the knowledge of the second language, Afrikaans or English as the case may be, and on the whole the Universities are helping the spread of bilingualism.

There are two Faculties of Medicine, one in Cape Town, the other in Johannesburg; three of Engineering, in Cape Town, Johannesburg, and Durban; two of Agriculture, at Pretoria and Stellenbosch; at Pretoria there is also a Veterinary Science faculty, and at Stellenbosch in 1932 a Forestry course was started; there are theological faculties at Stellenbosch and Pretoria.

The training of secondary teachers has been left to the Universities, and all the institutions endeavour to carry out this training. The training of primary teachers is to a much smaller extent provided for in the Universities, the main work in this instance being carried on in training colleges under the provincial Departments of Education.

Legal and commercial training is given in all the Universities, so is the teaching of the subjects usual in a Science and in an Arts Faculty.

Schools of African Life and Languages have been established at four of the Universities, and a considerable amount of valuable work has been done.

The Universities and University Colleges have together over 6000 students, almost entirely European. The coloured student is beginning to appear, but the native has so far found no place in South African Universities except as an external student. The South African Native College is not yet a constituent College of any of the Universities of South Africa, and students taught there take degrees externally.

**SCHOLARSHIPS.** Open to graduates of all South African Universities: 1851 Exhibition and Beit Fellowships, v. App. II. 17. H. B. Webb, maximum £200 p.a. for 3 yrs. Open to graduates of the Universities of Cape Town, South Africa and Stellenbosch: Croll Memorial, Porter, George Grey, Queen Victoria, Donald Currie, Union, each £225 p.a. for 2 years.; Ebdon, £300 p.a. for 2 yrs. at Cambridge; W. Hiddingh, £266 p.a. for 3 yrs.; Maynard, £90 p.a. for 2 yrs.

Elsie Ballot Scholarships, £400 p.a. for 2-3 yrs., tenable at Cambridge; basis of selection as for Rhodes Scholarships. Further information from the Joint Trustees (The Secretary, Ballot Scholarships, University

Registry, Cambridge, and Barclay's Bank, D.C.O., (Trustee Department), Box 434, Pretoria).

For Rhodes Scholarships, see p. 272.

See also under the separate Universities.

**TERMS.** The academic year is usually divided into 4 terms, beginning in Feb. or March and ending Nov. or Dec. At Cape Town, Stellenbosch, Pretoria, and the Witwatersrand there are two Semesters or terms, beginning end of Feb. and end of July.

**VICE-CHANCELLORS' COMMITTEE.** The Vice-Chancellors of the Univs. acting as a Joint Committee (known as *The Vice-Chancellors' Committee*) have, in the exercise of powers conferred by the above-mentioned Acts, made joint statutes and regulations relating to the Joint Matricn. Board, the Joint Committee for Professional Examns., the administration of the Joint Scholarship Funds of the five Univs., the admission of registered students of any one of the Univs. to any of the others, and a minimum period of attendance and minimum fees for the Degree of Bachelor. They have power to formulate regulations dealing with any other matters of common interest. The committee met twice in 1932, and dealt among other things with post-graduate scholarships awards, regulations for certain prize essays, and the nomination of South African candidates for Carnegie Corporation grants made by the Universities Bureau of the British Empire. The address of the Secretary (who is also Registrar, Univ. of Cape Town) is P.O. Box 594, Cape Town.

**CONFERENCE.** Representatives of the Univs. and Univ. Colleges in South Africa met for the first time in conference in Cape Town in 1923 to discuss matters of common interest and to promote co-operation and mutual consultation. Similar meetings have since been held from time to time. Two conferences were summoned by the Minister of Education in 1931 and 1932 to consider respectively the Financial Control of the Universities and the questions of bilingual instruction and external degrees.

The **JOINT MATRICULATION BOARD** consists of representatives of the five Univs., the Departments of Education of the Union, the four Provinces, S. Rhodesia and S.W. Africa, and the Secondary Schools (public and private) of the four Provinces. Its function is to control and conduct the Matricn. Examn. of the five Univs., and to deal with all applications for exemption therefrom. Revised Regulations introduced Dec. 1931 require candidates to take: (i.) One of the official langs. (Higher Grade); (ii.) Latin or Greek or French or German, or the second official lang. (Higher or Ordinary Grade); (iii.) a Science subject or Maths.; (iv.) a subject chosen from (ii.) not already taken, or Maths. (if not taken under (iii.)), or Italian or Portuguese, or Spanish, or Hebrew, or Xosa, or Zulu, or Tswana, or Sotho, or History, or Geography, or History-and-Geography; (v.) and (vi.) any two subjects (not already taken) selected from the prescribed list of approved subjects, provided that not more than four languages are taken by any candidate. School-leaving certificates are also issued by the Board, the syllabuses and examn. papers

being the same as for the matricn. examn., with a wider choice of subjects.

*Examinations exempting* (i.) *wholly*, or (ii.) *subject for subject*, from the *matriculation examination* of the South African Univs. : (i.) Entrance examns. of Univs. recognized by the Joint Board, St. Andrews L.L.A., Teachers' First Class Certificate (S. Africa), Technische Hoogeschool of Delft Diploma examn., including Latin, French, or German, and, subject to certain conditions, Transvaal Secondary School Certif. (in or after 1921), Cape Province Senior Certif. (in or after 1923), National Senior Certif. of the Union Education Dept. (after 1931).

(ii.) Provided that candidates have passed, with at least 4 subjects chosen in accordance with the regulations for a matricn. certificate of the Board, an entrance examn. of any Univ. recognized by the Board, Senior Certificate of the Univ. of the Cape of Good Hope or School-leaving Certificate of the Board, Second Class Teachers' Certificate (Transvaal and Natal Province), Eindexamen in Holland of Gymnasium or Hogere Burgerschool, Diploma in Switzerland of "École Supérieure de Jeunes Filles," Abiturienten-examen or Maturitäts-Prüfung in Germany or Switzerland at a gymnasium, Hoofdakte-examen in Holland, any British Higher School Certificate, or School Certificate *with credit*. Dynamics of the Scottish Universities preliminary examn. and Mechanics of the Senior or School-leaving Certificate (S. Africa) are accepted in lieu of a matricn. science subject.

Non-matriculated candidates over the age of 25 who desire to proceed to a degree course or to some professional qualification and are not eligible for exemption under the ordinary regulations may, under certain conditions, be specially exempted from matricn. on the recommendation of the Univ. or other authority concerned.

The address of the Secretary (who is also Registrar of the Univ. of S.A.) is P.O. Box 392, Pretoria.

THE JOINT COMMITTEE FOR PROFESSIONAL EXAMNS. (Address—P.O. Box 392, Pretoria), consisting of 2 representatives of each of the 5 Univs. (one for Law and one for Survey) and 5 persons appointed by the Govr.-General (of whom at least 2 must be for Law and 2 for Survey), controls and conducts : (1) Attorneys' Admission Examn., (2) Civil Service (Lower and Higher) Law Examns., (3) Examns. in Theory of Land Surveyng, and (4) Examn. for Patent Agents. It also conducts in certain cases on behalf of the Supreme Court the Advocates' Admission Examn. in Roman-Dutch Law and the Statute Law of the Union.



# UNIVERSITY OF CAPE TOWN

Founded 1918

*Postal address*—P.O. Box 594, Cape Town. *Telegrams*—University, Rosebank.

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—General Rt. Hon. J. C. SMUTS, C.H., C. Lég. d'H., C.G., LL.D. Camb., F.R.S.

PRINCIPAL AND VICE-CHANCELLOR—Professor A. W. FALCONER, C.B.E., D.S.O., M.D. Aberd., M.R.C.P.

PRESIDENT OF CONVOCATION—E. BARNARD FULLER, B.A., M.B., C.M. Edin., F.R.C.S. Edin.

CHAIRMAN OF COUNCIL—C. E. LEWIS, M.A., LL.D.

REGISTRAR—W. G. R. MURRAY, M.A. Ox.

LIBRARIAN—Rev. G. F. PARKER.

## TEACHING STAFF

### *Accounting and Business Method*

Baxter, W. T., B.Com. Edin., C.A. Prof.

Small, L., B.Com. Manc. Lectr.

Delbridge, J. S., B.A., B.Com., C.A. (Acctg.) Lectr.

White, K., C.A. (Acctg.) Lectr.

### *African Studies*

Schapera, I., Ph.D. Lond., M.A. (Soc. Anthropol.) Prof.

Lestrade, G. P., A.M. Harv., M.A. (Bantu Lang.) Prof.

Goodwin, A. J. H., M.A. Camb. (Ethnol. and Archæol.) Sr. Lectr.

Simons, H. J., M.A. S.A., Ph.D. Lond. (Native Admin.) Lectr.

van der Merwe, D. F., M.A. Pret. (Bantu Langs.) Lectr.

Bleek, Miss D. F. (Bushman Langs.) Hon. Reader.

2 Native Demrs. 1 Clerical Asst.

### *Anatomy*

Drennan, M. R., M.A., M.B., Ch.B. Edin., F.R.C.S. Edin. Prof.

..... Lectr.  
Gordon, W. L., O.B.E., M.D., F.R.C.S. Edin. (Applied Surg. A.) Lectr.  
Downes, Miss N. A. E., M.B., Ch.B. Jr. Lectr.  
Wolff, R., B.Sc. Cape, M.R.C.S., L.R.C.P., L.D.S., D.P.H.

Pt.-time Asst.  
Cohen, S. M., M.A., L.R.C.P. Lond., F.R.C.S. Eng. (also Surg., Clin.). Pt.-time Asst.  
1 Demr., 2 Technical Assts.

### *Architecture, v. Fine Art*

### *Bacteriology*

Campbell, W., M.B., Ch.B., B.Sc. Wernher and Beit Prof.

Skaife, S. H., M.A. Cape, Ph.D. Pt.-time Lectr.

Greenfield, Emily C., M.B., Ch.B., D.T.M. & H. Lond. Asst.

Don, Phyllis A., B.A., M.B., Ch.B. Asst.

1 Demr., 2 Laboratory Assts., 3 Technical Assts., 1 Clerical Asst.

*Botany*

Adamson, R. S., M.A. Camb., M.A.,  
B.Sc. Edin.

Harry Bolus Prof.

Compton, R. H., M.A. Camb.

Harold Pearson Prof.,

Dir. of National Bot.  
Gardens.

Stephens, Miss E. L., B.A. Cape  
and Camb., F.L.S. Sr. Lectr.

Levy, Mrs. M. R., B.A. Cape,  
D.Sc. Lectr.

Bolus, Mrs. F., B.A. Cape.  
Curator of Bolus Herbarium.

1 Demr., 1 Lab. Asst., 5 Assts.  
Bolus Herbarium.

*Chemistry*

..... Prof. and Hd. of Dept.

Newbery, E., D.Sc. Manc., F.I.C.  
(Phys. C.) Mally Prof.

Carman, P. C., M.Sc. N.Z., Ph.D.  
Lond. Lectr.

Pugh, W., B.Sc. Lond., Ph.D.,  
F.I.C. Lectr.

Rapson, W. S., M.Sc. N.Z., D.Phil.  
Ox. Lectr.

..... Junr. Lectr.  
2 Demrs., 3 Tech. Assts.

*Classics*

le Roux, T., M.A. Cape, Litt.D.  
Amst.

(Gk.) Prof. and Head of  
Dept.

Rollo, W., M.A., D.Litt. Glas.,  
Litt.D. Leiden Prof.

Baldry, H. C., M.A. Camb. Lectr.  
..... Lectr.

*Commerce*

Hutt, W. H., B.Com. Lond. Prof.  
Kelly, T. H., M.Com., Ph.D. Birm.

Senr. Lectr.

Thirlby, G. F., B.Com. Lond.  
Lectr.

1 Clerical Asst.

*Economics*

Leslie, R., M.A. Edin. Jagger Prof.

Robertson, H. M., M.A. Leeds,  
Ph D. Camb. Sr. Lectr.

..... Junr. Lectr.

1 Demr.

*Education*

Scrimgeour, A. C. S., M.A. Edin  
(Method) Prof.

Grant, W. F., B.Sc. Lond. (in  
English) Prof.

Burger, F. J., M.A., Ph.D. (in  
Afrikaans) Prof.

Pells, E. G., B.Sc., B.Litt. Ox.,  
M.A., B.Ed. Sr. Lectr.

*Lectrs. :*

Louw, N. P. van W., M.A., B.Ed.

Murray, Miss M. I., B.A. Stell.

Cherry, Miss N., B.A., L.R.A.M.  
(Elocution).

Marais, Miss M. J., B.A.

Fehrson, F. O., M.R.C.S., L.R.C.P.,  
D.P.H. (School Hyg.)

2 Assts.

*Engineering, v. infra**English*

Doughty, O., M.A. Durh., B.Litt.  
Ox. (E. Lit.) Arderne Prof.

Mackie, W. S., M.A. Aberd.,  
B.A. Ox.

(E. Lang.) De Beers Prof.  
and Hd. of Dept.

Edwards, W. A., B.A. Camb.  
Sr. Lectr.

Cavers, Miss D. L., B.Litt. Ox.,  
M.A., B.Ed. Lectr.

Morris, Miss C. A. J., M.A.  
Junr. Lectr.

2 Demrs.

*Ethics and Politics*

Murray, A. H., M.A. Stell., B.Litt.,  
D.Phil. Ox. Prof.

Versfeld, M., Ph.D. Edin., M.A.  
Lect r

*Fine Art*

Roworth, E., Prof. and Dir.  
Michaelis School.

White, L. W. Thornton, F.R.I.B.A.  
(Archit.) Prof.

Thatcher, P. Asst. and Keeper.  
11 Assts., 2 Demrs., 1 Clerical Asst.

*French*

Inskip, D. P., M.A. Glas., L.-ès-L.  
Nancy Prof.

Hérissen, C. D., L. ès L.  
Jnr. Lectr.

Christeller, Mlle. C., M.A., S.A.  
Asst.

*Geography*

Talbot, W. J., B.Sc. Lond. Prof.

*Geology, v. Mineralogy**German*

..... Prof.  
Bodmer, F., Ph.D. Zürich Lectr.

*Hebrew*

..... Prof.  
Wolozinsky, M., M.A. Asst.

*History*

Mandelbrote, H. J., B.A. Ox.,  
M.A., LL.B.

King Geo. V. Prof.

Marais, J. S., B.A., D.Phil. Ox.,  
M.A. Sr. Lectr.

*Law*

Wille, G., B.A., LL.D. Camb., K.C.  
Emmett, E., M.A., LL.B. Manc.

Prof.

Wylie, J. K., M.A., LL.B., D.Litt.  
Edin., LL.B. Lond., LL.M.

S. Afr. (Rom. L. and Juris.)

W. P. Schreiner Prof.

Thompson, C. N., M.A. Cape,  
B.A., LL.B. Camb. Lectr.

*Logic and Psychology*

Reyburn, H., M.A., Ph.D. Glas.  
Prof.

Eales, W. C., B.A. Cape, M.A.  
S. Afr. (L. and Metaphys.)

Sr. Lectr.

Taylor, J. G., M.A. Aberd.  
(Psychol.) Sr. Lectr.

Thompson, Miss E. M., B.A. S. Afr.  
(Psychol.) Lectr.

1 Asst.

*Mathematics, Pure*

Crawford, L., M.A. Camb., D.Sc.  
Glas. Prof.

Skewes, S., M.A. Camb., M.A.,  
B.Sc. Sr. Lectr.

Wylie, Mrs. G. M. Kerr, B.A.  
Cape, M.A. S. Afr., B.A., Dip.

Actuarial Sci. Edin. Lectr.

Gould, J. W., M.A. Jnr. Lectr.

..... Jnr. Lectr.

*Mathematics, Applied*

Brown, A., M.A. Edin. and Camb.,  
B.Sc. Edin. Prof.

Pollard, M. J., M.A. Camb., B.Sc.  
Wales Sr. Lectr.

..... Jnr. Lectr.

1 Tech. Asst.

*Mineralogy and Geology*

..... Philipson-Stow Prof.  
Walker, A. R. E., B.Sc. Lond.,

A.R.C.S. Lond. Sr. Lectr.

1 Demr., 1 Lab. Asst.

*Music*

Deas, J. S., M.A., Mus.Bac. Edin.  
Prof. and Dir. of Coll.

Peffer, Miss R., L.R.A.M., Dip.  
Dramatic Art, Lond.

(Speech-training and  
Elocution) Lectr.

Gamble, R. (Speech-training and  
Dramatic Art) Lectr.

24 other staff.

*Nederlands en Afrikaans*

Bosman, D. B., M.A. Cape, Litt.D.  
Groningen (Lang.)

Hofmeyer Prof.

van der Merwe, I. W., M.A. Lectr.

Bosman, F. C. L., Litt.D. Amst.,  
M.A. Lectr.

du Plessis, I. D., M.A., B.Ed.,  
Ph.D. Lectr.

Scholtz, J. du P., M.A. Stell.  
Litt.D. Amst. Lectr.

*Philosophy*, v. Logic and Psychology, and Ethics

*Physics*

James, R. W., B.A. Camb., B.Sc.  
Lond., F.I.P. Prof.

Grindley, E. N., M.Sc. Brist.,  
Ph.D. Lectr.

Malan, D. J., D.Sc. Paris, M.Sc.  
Lectr.

Mohr, C. B. O., B.A., M.Sc. Melb.,  
Ph.D. Camb. Lectr.

4 Demrs., 2 Tech. Assts.

*Physiology*

Jolly, W. A., M.B., Ch.B., D.Sc.,  
LL.D. Edin. Prof.

Zwarenstein, H. J., B.Sc., Ph.D.  
Manc., M.A., M.Sc. Sr. Lectr.

Ladell, W. S. S., B.A. Camb.  
Lectr.

1 Demr., 4 Tech. Assts.

*Politics*, v. Ethics

*Social Science*

Batson, E., B.Sc. (Econ.) Lond.  
Prof.

Caspareuthus, Miss A. V., M.A.,  
B.Ed. Tutor.

1 Clerical Asst.

*Zoology*

Stephenson, T. A., D.Sc. Wales  
Prof.

..... Lectr.

Sandon, H., M.A. Camb., Ph.D.  
Rutgers Lectr.

..... Jnr. Lectr.  
1 Demr., 1 Museum Asst., 1 Lab.  
Asst.

**Engineering**

v. also Maths. *supra*

*Civil Engineering*

Snape, A. E., M.Sc. Manc.,  
M.I.C.E., F.R.San.I.

Corporation Prof.

Stewart, G., M.R.San.I. Sr. Lectr.

Gilmore, J. A., B.Sc., M.A. Lectr.  
..... Lectr.

Halstead, S., B.Sc. Eng. Jnr. Lectr.  
1 Tech. Asst., 1 Clerical Asst. (also  
Elec. and Mech. Eng.).

*Electrical Engineering*

Goodlet, B. L., B.A. Camb.,  
M.Amer.I.E.E.

Corporation Prof.

Roberts, N. H., B.A. Camb., M.Sc.  
S.A. Sr. Lectr.

..... Lectr.

Einhorn, H., Dr. Ing. Berlin  
Jnr. Lectr.

1 Tech. Asst.

*Land Surveying*

Whittingdale, D. Reader.  
Schreiber, O. Lectr.

Menzies, G. H., B.Sc. Lectr.  
3 Assts.

*Mechanical Engineering*

McMillan, D., M.C., M.I.Mech.E.,  
M.I.A.E. Prof.

Weaver, W. G., M.I.Mech.E.,  
M.I.Chem.E. Sr. Lectr.

Elliott, G. G., B.Sc. Lectr.

Sacks, E., Dip. Eng. Darmstadt  
Lectr.

..... Lectr.  
1 Tech. Asst.

**Medicine**

(for subjects of the first 2 yrs.—  
Anat., etc., v. *supra*)

*Anæsthetics*

Forbes, A. Gordon, M.C., M.B.,  
Ch.B. Edin. Lectr.

Muir, R. M., M.B., Ch.B. Edin.  
Lectr.

Clin. Instrs. :

Berelowitz, H., M.B., Ch.B.  
van Hoogstraten, E. G., B.A.,  
M.B., Ch.B.

*Dermatology*

Bosman, H. M., M.R.C.S., L.R.C.P.  
Lectr.

Krone, F., M.D. Edin.  
Asst. Clin. Lectr.

*Diseases of Children* [Lectr.  
Leipoldt, C. L., L.R.C.P., F.R.C.S.

Asst. Clin. Lectrs. :  
Dunn, D., M.D. Edin., M.R.C.P.  
Rabkin, W., M.B., Ch.B. Edin.

*Ear, Nose, and Throat*  
Luckhoff, J., M.D. Edin. Lectr.

Asst. Clin. Lectrs. :  
Scott, R. L., M.B., Ch.B., F.R.C.S.  
Edin.  
Smuts, Ph. A., B.A. Cape, F.R.C.S.  
Edin., M.R.C.S., L.R.C.P.  
Jones Phillipson, C. E., F.R.C.S.  
Edin.

*Forensic Medicine* [Prof.  
Rhodes, W. F., B.A. Camb.,  
M.R.C.S., L.R.C.P., D.P.H.  
Turner, R., M.B., Ch.B. Lectr.  
Murray, C. A. M., B.Sc., M.B.,  
Ch.B. Wit. Lectr.

*Gynæcology, v. Obstetrics and  
Gyn.*

*Infectious Diseases* [Lectr.  
Wicht, J. F., M.D. Dub., D.P.H.

*Leprosy*  
Med. Supt. Lep. Inst. Pretoria  
Lectr.

*Medical Ethics*  
Elliott, C. C., B.A., M.D. Lectr.

*Medicine*  
..... Prof.  
Forman, F., B.A. Cape, M.B.,  
Ch.B. Aberd. Asst.

*Medicine, Clinical*  
Marais, D. P., M.D., F.R.C.P.  
Edin. Lectr.  
Keet, P. W. J., M.B., Ch.B.,  
M.R.C.P. Edin. Lectr.  
2 Assts.

*Medicine, Psychological*  
Key, G. J., M.B., Ch.B. Aberd.  
Lectr.

Kooy, F. H., M.D. Gron., M.R.C.S.,  
L.R.C.P. Lectr.  
2 Clin. Tutors.

*Methods of General Medical  
Practice*  
Bremer, K., M.B., B.S. Lond.  
Lectr.

*Obstetrics and Gynæcology*  
Crichton, E. C., B.A., M.D.,  
B.A.O., B.Ch., L.M. Dub.,  
F.C.O.G. Prof.  
Wells, A. Simpson, M.A., M.D.  
Glas., F.R.C.S. Edin.  
(Obstet.) Lectr.

*Obstetrics and Gynæc., Clinical*  
Charnock, F. S., M.B., Ch.B.  
Manc., M.R.C.S., L.R.C.P.  
(Obstet.) Lectr.  
Impey, R. L., M.C., M.D., F.R.C.S.  
Ed., F.C.O.G.

(Gynæc.) Lectr.  
Sharp, C. W. C., L.R.C.P.,  
F.R.C.S. Edin., L.F.P.S. Glas.  
(Obstet.) Lectr.  
Naude, F. K. te W., M.D. Utrecht  
(Gynæc.) Asst. Lectr.  
Goldberg, A. J., M.B., Ch.B.,  
L.R.C.P. Edin., M.C.O.G.  
(Obstet. & Gyn.) Tutor.  
van Heerden, Miss P. (Gynæc.)  
Tutor.

Massey, Miss J. H., M.B., Ch.B.,  
M.C.O.G. Asst.

*Ophthalmology*  
du Toit, J. S., M.D., F.R.C.S.  
Edin. Lectr.  
Sichel, A. W. S., B.A. Cape, M.D.  
Edin., D.O. Ox., D.O.M.S.  
Lond. Lectr.

*Orthopædics*  
Roux, P., M.Ch. Orth. Liv., M.B.,  
Ch.B., F.R.C.S. Edin. Lectr.

*Orthopædics, Clinical*  
Bell, H., M.B., Ch.B. Belfast,  
M.Ch. (Orth.) Liv., F.R.C.S.  
Edin. Asst. Lectr.

*Pathology*

- Ryrie, B. J., M.B., Ch.B. Edin.  
     Wernher and Beit Prof.  
 Cowie, Mrs. Dorothy G., M.B.,  
     Ch.B. Asst.  
 Linder, G. C., M.D., M.R.C.P.  
     (Pathol. Chemistry) Asst.  
 van den Ende, M., M.B., Ch.B.  
     Jnr. Asst.  
 4 Tech. Assts., 1 Cler. Asst.

*Pharmacology*

- Gunn, J. W. C., M.A., M.B., Ch.B.  
     Edin. Wernher and Beit Prof.  
 Sapeika, N., B.A., M.B., Ch.B.  
     Asst.  
 1 Tech. Asst.

*Public Health*

- Higgins, T. S., B.Sc., M.D., B.S.  
     Lond., D.P.H. Camb. Prof.  
 4 Assts.

*Radiology*

- van Roojen, J., M.D. Amst.,  
     M.R.C.S., L.R.C.P., D.M.R.E.  
     Camb. Lectr.  
 1 Clerical Asst.

*Surgery*

- Saint, C. F. M., C.B.E., M.D., M.S.  
     Durh., F.R.C.S. Prof.  
 Petersen, N., M.B., B.S. Lond.,  
     F.R.C.S. Edin. Lectr.  
 1 Tech. Asst.

*Surgery, Clinical*

- Gordon, W. L. (also Anat.) Lectr.  
 Sandes, T. L., O.B.E., M.A., M.D.  
     Dub., F.R.C.S. Eng. and Irel. Lectr.  
 Goldschmidt, L. B., B.A., M.B.,  
     B.S. Lond., F.R.C.S. (Urol.) Lectr.  
 Sacks, I. G., B.A., M.B., B.Ch.  
     Dub., F.R.C.S. Eng. Asst. Lectr.  
 Rous, M. C., M.B., Ch.B., F.R.C.S.  
     Eng. Asst. Lectr.  
 Frater, K., M.S. Minn., B.A.,  
     M.B., Ch.B. (Urol.) Asst. Lectr.  
 Cohen, S. M. (also Anat.) Tutor.  
 Forsyth, R. L., B.A., M.B., B.Ch.,  
     B.A.O. Dub., F.R.C.S.I. Tutor.  
 Schriret, T., M.B., Ch.B., F.R.C.S.  
     Eng. Tutor.

*Surgery, Dental*

- Wolff, H., L.D.S. Lectr.  
 Rosenblatt, W., L.D.S. Lectr.

*Vaccination*

- Louw, A., M.B., Ch.B. Edin. Lectr.

*Venereal Diseases*

- O'Malley, C. K., M.C., M.B.,  
     B.Ch., B.A.O., M.S. N.U.I.,  
     D.M.R.E. Camb. Lectr.

## GENERAL INFORMATION

The University of Cape Town, with which is incorporated the South African College, created by Act 14 of 1916, came into legal existence on April 2, 1918, when the Council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Sir Otto Beit, who added £50,000 to a lapsed bequest by Mr. Alfred Beit. For early history, see *Yearbook* for 1930 and Introductory Chapter above.

A site for the University was provided by Government at Groote Schuur, Rondebosch. An appeal for funds in commemoration of the centenary of the S.A. College in 1929 realised over £70,000.

LIBRARY, 30,000 vols. Access to S.A. Public Library, 100,000 vols., specially well equipped in Bot. and Zool. Depts. Also Bolus Bot. Library and (for students of Teaching) the Library of the Educn. Dept. The Bolus HERBARIUM includes Guthrie Collection of Cape Flora. MARINE BIOL. LABORATORY at St. James'.

**FACULTIES.** Arts, Commerce, Science, Engineering, Law, Medicine, Education, Music, and Fine Arts.

**DEGREE COURSES.** B.A., 3 yrs. ; B.A. (Soc. Sc.), 3 yrs. ; B.A. (in Architecture), 5 yrs. ; B.A. (in Fine Art), 4 yrs. ; B.Sc. (in Pure Sc.), 3 yrs. ; B.Sc. (in Applied Sc.), 4 yrs. ; B.Sc. (in Engineering), 4 yrs. ; B.Sc. (in Land Surveying), 4 yrs. ; B.Sc. (Quantity Surveying), 5 yrs. ; B.Com., 3 yrs. ; LL.B., 5 yrs. ; B.Mus., 4 yrs. ; M.B., Ch.B., 6 yrs. Higher degrees: M.A., 1 yr. ; M.Sc., 1 yr. ; M.Com., 1 yr. ; B.Ed., 2 yrs. after B.A. ; M.Ed., 2 yrs. ; M.A. (Architecture), 1 yr. ; M.A. (Fine Art), 1 yr. ; M.A. (Soc. Sc.), 1 yr. The M.A., M.Sc., and M.Com. courses are open to graduates of any approved Univ. ; so also are courses for the Ph.D. (open to bachelors of at least 3 yrs.' standing), and D.Litt., D.Sc. (open to bachelors of at least 5 yrs.' standing), for which attendance for 2 yrs. may be required. The M.Com. is open to B.Com. of 3 yrs.' standing. The LL.M. is open to LL.B. of 2 yrs.' standing ; the LL.D. is open to LL.B. or LL.M. The M.Sc. in Engineering is restricted to graduates in engineering of the Univ. (2 yrs.' standing).

**DIPLOMA COURSES.** 1 yr.—African Studies (lower diploma), Analytical Chemistry, Bacteriology, Nursing, Public Health (post-graduate) ; 2 yrs.—African Studies (higher diploma), Social Sciences ; 3 yrs.—Commerce, Fine Art, Music, Speech Training and Elocution ; 5 yrs.—Architecture.

**CERTIFICATE COURSES.** 1 yr. post-graduate—Secondary Teacher's ; 3 yrs.—Ceramics, Commercial Art, Fine Art, Higher Primary Teacher's, Music, Speech Training.

**OTHER COURSES.** Classes for Lower Law Certificate Examn. and Civil Service Lower Law Examn. and for students in Agric. and Theol. proposing to graduate in those subjects elsewhere.

**RECOGNITION OF AND BY OTHER INSTITUTIONS.** Attendance at the Univs. of Stellenbosch, Witwatersrand, Pretoria, and the constituent Colls. of the Univ. of S. Africa is accepted under certain conditions as part of the attendance qualifying for degrees. Attendance on classes in Physics, Chem., Bot., and Zool. is accepted by Aberd., Bris., Durh., Edin., Glas., Liv., Manc., Dub., R.C.P. Lond., R.C.S. Eng. ; so also are examns. in the Faculty of Arts on the special courses in these subjects (except by Dub.). Attendance on courses in Anat. and Physiol. is accepted by Aberd., Durh., Edin., and Glas., R.C.P. Lond., and R.C.S. Eng. ; examns. in the Faculty of Arts in these subjects are accepted by Aberd. The Dentistry course is recognized by the R.C.S. Eng., R.C.P.S. Edin., and Edin. Dental School ; the Hygiene course by the Conjoint Boards of Eng., Ire., Edin., and Glas.

**FEES.** The annual academic fee is fixed so as to cover all charges for a student's registration, classes and laboratories, ordinary Univ. examns., graduation, library, athletics, Students' Societies, and, in the case of medical students, hospital fees for clinical instruction. The annual fee varies according to the course which is being taken, but is uniform throughout the normal duration of the course. B.A. and B.A. (Soc.Sc.), £38 ; B.Sc., £45 ; B.Sc.Eng., £50 ; B.A.Arch. and B.Sc. Quantity Surveyors, £40 for 4 yrs. and £20 for 1 yr. ; B.Ed., £35 ; LL.B., £50 ; M.B., Ch.B., £55 ; B.Mus., £40. Master's degree : Arts £32, Science £38, Education £30, Architecture and Fine Art £18, Engineering, Law and Medicine £10. Doctor's degree £16.

**SCHOLARSHIPS FOR GRADUATES.** Jamison, £225 p.a. for 2 yrs. ; S.A.C. Croll, £300 p.a. for 2 yrs. ; Smartt Memorial (in Agric.), £200 p.a. for 2 or 3 yrs. ; 2 in Engin., £150 p.a. for 2 yrs. ; 1 in Med., £150 p.a., tenable for 1 yr. overseas. *v.* also p. 627.

A Jagger Scholarship of the annual value of £200 tenable for 3 (or possibly 4) years subject to satisfactory conduct and progress, offered to a student from Gt. Britain proposing to take his degree at the Univ. of Cape Town.

For open post-graduate scholarships, see Appendix II. 23.

**TRAVELLING CONCESSIONS.** On production of a certificate signed by the registrar, all full-time students may travel by rail under certain conditions at *reduced fares*—viz., the concession is only allowed on return tickets via the most convenient direct all-rail route from home to the Univ. and back; it does not apply to married persons, or to students attending classes for the law certifi. and civil service law examns. Students who have obtained a degree are not eligible for season tickets at concession rates for daily travel.

The Union-Castle Steamship Co. gives concessions to students travelling coastwise between ports from Cape Town to Mombasa, inclusive (applicable only to whole-time scholars and students who have not graduated and who are not married): (a) Students travelling from home to school or univ. or *vice versa*: *Single tickets* at single fare, according to age, less 10 per cent. *Return tickets* at the single adult fare, plus 10 per cent. The period of availability may be extended to 12 months on application. (b) All other students: *Return tickets* will be granted at excursion rates, available for period of vacation.

Certificates must include age, home address, and, when on vacation, the period of such vacation.

The Union-Castle Co. and other Steamship Cos. grant a 10 per cent reduction on the ordinary fare to students proceeding overseas on vacation or for further study.

**APPOINTMENTS COMMITTEE.** Hon. Secretary, E. G. Pells.

**RESIDENCE.** Hostels for 300 men and 200 women. Board, laundry, and residence, £68-£78 p.a.

**PUBLICATIONS.** *Calendar* (Dec.); Students' Repve. Council's *University Quarterly*; *Annals of the Bolus Herbarium*; *The History of South African College, 1829-1918*, by Prof. W. Ritchie (2 vols.; Maskew Miller, Cape Town); *The S.A. College and the University of Cape Town, 1829-1929*, by Prof. E. A. Walker.

## THE YEAR 1936

On the accession of His Majesty King Edward VIII to the throne he relinquished the office of Chancellor, which he had held since the inauguration of the University in 1918. An address was presented to His Majesty thanking him for his services.

**BENEFACTIONS.** The Carnegie Corporation of New York, \$45,000 for carrying out research under the auspices of the Univ. The approved programme includes: the marine ecology of the South African coast, a linguistic, ethnographical and demographic survey of the Langa native location, growth and storage of deciduous fruit, and a social survey of Cape Town. Under the will of Mrs. Helen Brunt, £5000 for establishment of scholarships under a James Owen Brunt Endowment Fund. The trust established by the late Mrs. Marais for establishment of Jacobus Stephanus Marais Scholarships and for research in surgery amounted to £24,617. Under the will of the late G. A. Reynolds, the Univ. becomes the ultimate legatee to a sum of over £9000 for G. A. Reynolds Scholarships.

**NEW DEVELOPMENTS.** Steps taken to procure apparatus with a view to testing the value of employing films as an adjunct to teaching in various depts.



of the Univ. Arrangements made in conjunction with the Cape Hospital Board for institution of a joint committee for discussion of matters arising from time to time in connexion with the hospital training of medical students in view of completion and approaching occupation of new Groote Schuur Hospital. An interesting development provided by institution of a seminar course in education for teachers, specially designed to meet the requirements of teachers wishing to study present-day theories and practice in the field of education under Univ. guidance.

**NEW POSTS.** Chair of Architecture. Lectureships in Bantu Languages, Native Law and Administration, Ethics and Politics, English, Speech-Training and Dramatic Art, Chemistry.

**EXTRA-MURAL WORK.** Prof. S. Brodetsky (Leeds Univ.), 2 lectures, one to students on the "Auto-gyro," and one of a public character on "Recent Developments in Aviation." Prof. F. E. Lloyd (McGill Univ.), President of the Royal Society of Canada, a lecture on "Carnivorous Plants." Prof. W. J. Talbot, inaugural lecture on "Geography: Its Field and its History." Univ. Extension Lectures, by Prof. E. Batson (six on "Poverty"), and by Dr. H. M. Robertson (four on topics related to "Recent Economic History.") Eight Chamber Music Concerts were given under the auspices of the South African College of Music. Six lecture-recitals by Prof. Harold Samuel, F.R.C.M., who visited South Africa by invitation of the South African Univs. Lectureship Committee, "The Growth of the Pianoforte and its Influence on the Evolution of Keyboard Music."

**RESIGNATIONS.** Prof. B. F. J. Schönland (Physics), on apptment. as Director of the Bernard Price Institute of Geophysical Research, Johannesburg, after nearly 15 yrs.' service; Prof. E. A. Walker (Hist.), on apptment. to Vere Harmsworth Chair of Imperial Hist., Univ. of Cambridge, after 25 yrs.' service; Prof. H. G. Galbraith (Accountancy), to devote himself to professional work only; Prof. G. H. T. Malan (Ethics), through illness; Prof. D. M. Beach (Phonetics); Prof. J. Wheatley, Director of Michaelis School of Fine Art, who rendered great service in organizing the teaching of fine art and architecture at the Univ. and in helping to establish the National Gallery in Cape Town. He and his wife had been members of the staff for 11 yrs.

**DEATHS.** Monsignor F. C. Kolbe, one of the oldest of the Univ. alumni, donor of the Kolbe Art Collection in the Michaelis School of Fine Art. Sir Arnold Theiler, D.Sc., veterinary scientist.

**HONORARY DEGREE.** *M.A. in Architecture*—Mr. F. K. Kendall, A.R.I.B.A., in recognition of his services in working for the enforcement of high standards of professional training and conduct.

**STUDENTS.** Average attendance for the year: full-time, 1698, including 175 graduates; part-time, 258, including 28 graduates. Total number of individual students enrolled during the year was 2148.

**DEGREES.** B.A., 63; B.A. in Archit., 4; B.A. in Soc. Sc., 3; M.A., 13; B.Ed., 4; B.Com., 12; LL.B., 15; B.Sc. (Pure Sci.), 22; B.Sc. (Engin.), 22; B.Sc. (Land Surveying), 3; M.Sc., 8; M.Sc. (Engin.), 2; M.B., Ch.B., 64; Ph.D., 4.

**DIPLOMAS AND CERTIFICATES.** Secondary Teachers, 36; Higher Primary Teachers, 5; Music, 4; Speech Training, 4; Architecture, 6; Commercial Art, 3; Public Health, 2; Analytical Chemistry, 1; African Studies, 1.

# UNIVERSITY OF SOUTH AFRICA

Founded 1873

*Address*—P.O. Box 392, Pretoria.

CHANCELLOR—Field-Marshal H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.T., K.P.

VICE-CHANCELLOR AND CHAIRMAN OF COUNCIL—F. D. HUGO, B.A. Cape.

CHAIRMAN OF THE SENATE—Professor F. POSTMA, Litt.D. V.U. Amst.

PRESIDENT OF CONVOCATION—Emeritus Professor A. FRANCKEN, B.A. Cape.

REGISTRAR—LANGHAM MURRAY, M.A. (Ox.).

## CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF THE O.F.S. (formerly Grey University College), Bloemfontein (1855).

HUGUENOT UNIVERSITY COLLEGE, Wellington (1874).

NATAL UNIVERSITY COLLEGE, Pietermaritzburg and Durban (1909).

POTCHEFSTROOM UNIVERSITY COLLEGE for Christian Higher Education, Potchefstroom (1905).

RHODES UNIVERSITY COLLEGE, Grahamstown (1855).

## GENERAL INFORMATION

By Act 12 of 1916 of the Legislature of the Union of South Africa the University of the Cape of Good Hope, incorporated by Act of the Cape Legislature in 1873, became and was incorporated in the University of South Africa, with administrative seat at Pretoria. *See* Introductory Chapter above.

FACULTIES : Arts (including Fine Arts, Divinity, and Music), Education, Science, Engineering, Law, Commerce and Administration.

DEGREES. B.D., M.Div., D.D. ; B.A., M.A., M.Ed., D.Litt., D.Phil. ; B.Mus., D.Mus. ; B.Com., M.Com. ; B.Econ., M.Econ. ; B.Sc., M.Sc., Ph.D. in Sci., D.Sc., B., M., Ph.D. and D.Sc. in Engin. ; LL.B., LL.M., LL.D.

Courses for B.A., B.Com., B.Econ., B.Sc.—3 yrs. ; B.Mus., B.A. (Fine Arts), B.Sc. Eng.—4 yrs. ; LL.B.—3 yrs., after graduating in some faculty other than Law. *Internal* candidates for these degrees must have attended as registered matriculated students at a Constituent Coll. for the prescribed periods, provided that the Senate will accept as qualifying attendance on recognized courses at any of the other South African Univs. and may accept attendance and examns. at other recognized Univs. or at other institutions specially recognized by the Senate for the purpose. But the minimum attendance at approved courses at the Univ. of S.A. for the Bachelor's degree in Applied Science is the final 2 yrs., and for other Bachelor's degrees at least one-half of the courses prescribed. *External* students must have their curricula approved by the Senate and must pass the examns. prescribed for them from year to year by the Senate in order to qualify for degrees.

The M.A., M.Sc., M.Com., and M.Econ. courses each cover 1 yr. after the Bachelor's degree ; the M.Ed. and M.Div. 2 yrs. The M.Sc. (Engin.) may be conferred on a B.Sc. (Engin.) who has had, since graduating, 2 yrs.' practice of his profession. A thesis is required for the LL.M. or M.Sc. (Engin.). Doctorates (except Ph.D.) are granted for approved theses to Bachelors of at least 5 yrs.' or Masters of at least 4 yrs.' standing (reducible to 4 and 3 respectively in consideration of attendance for one year as a research student at an approved institution). For the Ph.D. degree the periods are 3 yrs and 2 yrs. The Master's and Doctor's degrees may also be conferred *honoris causa*.

*Research (Bachelor) Degrees.* On proof of special qualifications in any direction a person may be exempted from the matricn. examn. and admitted to courses of special study and research with a view to graduation, the conditions being determined by Boards of Faculty, subject to approval of Senate.

*Diplomas :* in Education—1 yr. course ; in Bantu Studies (Lower, 2 yrs., Higher, 1 yr.) ; in Social Studies, 1 yr.

**SCHOLARSHIPS FOR GRADUATES.** Queen Victoria Memorial (women only) and Hiddingh-Currie, each £200 p.a. for 3 yrs. Ten Bursaries £60-£80, for Bachelors proceeding to M.A. v. also p. 627.

**SCHOOL AND MUSIC EXAMNS.** The Univ. controls and conducts a *Junior Certificate* examn. of standard 2 yrs. below matricn., and examns. for Music Certifs. and Licentiate Diplomas (for Teachers of Music and Solo Performers).

**PUBLICATION.** *Calendar* (January).

## THE YEAR 1936

**HONORARY DEGREES.** *D.Litt.*—Marthinus Christoffel Botha, Secretary for Education. *D.Phil.*—Rev. Andries Dreyer, John Langalibalele Dube.

**STUDENTS.** Full-time : 1795, including 303 graduates. External and part-time : 1819, including 128 graduates.

**DEGREES.** B.D., 2 ; M.Div., 2 ; B.A., 255 ; B.A. (Fine Arts), 7 ; M.A., 27 ; LL.B., 18 ; B.Sc., 51 ; M.Sc., 12 ; Ph.D. (Science), 1 ; D.Sc., 4 ; B.Sc. (Eng.), 7 ; M.Ed., 4 ; B.Com., 35 ; B.Econ., 5 ; M.Com., 1.

# UNIVERSITY COLLEGE OF THE ORANGE FREE STATE

(Formerly GREY UNIVERSITY COLLEGE)

BLOEMFONTEIN, O.F.S.

Founded 1855

CHAIRMAN OF COUNCIL—S. H. PELLISSIER, B.A. Cape.

VICE-CHAIRMAN—J. C. PRETORIUS, M.D. Dublin.

RECTOR—R. B. SAAYMAN, B.A. Cape.

ASSISTANT REGISTRAR—J. B. THOM, B.A. Stell.

LIBRARIAN—Emer. Prof. A. FRANCKEN, B.A. Cape.

## TEACHING STAFF

*Accounting and Auditing*  
Harrison, L., C.A. S.A., A.S.A.A.  
Lectr.

*Afrikaans and Dutch*  
Malherbe, D. F., B.A. Cape,  
Dr.phil. Freib. i. Br. Prof.  
Scholtz, H. v. d. M., M.A. Stell.,  
D.Litt. Utrecht (Dutch) Prof.  
Conradie, Miss E. J., D.Litt.  
Amsterdam, M.A. Lectr.

*Botany*  
Potts, G., B.Sc. Durh., Dr.phil.  
Halle Prof.  
Gemmell, Miss D. M., M.Sc. Asst.

*Chemistry*  
Rindl, M., Dring. Charl. (Organ.  
and Genl.) Prof.  
Zweerts, F., Chem. Ingr. Delft  
(Phys. and Appl.) Lectr.  
Sapiro, M. L., M.Sc. Asst.

*Classics*  
Ross, J. A., M.A. Cape. Prof.  
teven, S. J. H., B.A. Ox., M.A.  
Cape T. Lectr.

*Commerce and Economic Geo-  
graphy*  
Fourie, F. C. v. N., B.A., B.Com.  
Cape T. Lectr.

*Economics* [Prof.  
Fourie, I. S., B.A. S.A. and Ox.

*English*  
Hopwood, D. P., M.A. Ox., Litt.D.  
Stell. Prof.  
Mackenzie, B. A., M.A., D.Litt.  
Cape T., B.Litt. Ox. Lectr.

*Geology and Geography*  
Von Bonde, W., M.A., D.Sc. Cape,  
F.G.S. Prof.  
Maartens, Miss M. J., M.Sc. Asst.

*German and French*  
Dekker, J. J., M.A., Dr.phil.  
Vienna Prof.

*Hebrew*  
Block, M., Dr.phil. Zürich Lectr.

*History*  
Barnard, S. P., L.N.C. Gron.,  
Litt. Docts. Leiden Prof.

*Law*  
Brink, C. P., B.A., LL.B. Cape  
Lectr.  
Horwitz, L., B.A., LL.B. Cape  
Lectr.  
Edeling, H. J., B.Sc., LL.B. Lectr.

Smit, A. J., B.A., LL.B.	Lectr.	<i>Philosophy, Politics and Sociology</i>	
de Villiers, W., LL.D. Leid.			
	Lectr.	Diederichs, N., M.A., D.Litt. et	
Grobler, N. J., B.A. S.A. et Ox.,		Phil. Leyd.	Prof.
LL.B.	Lectr.	Keyter, J. de W., M.A., B.Ed.	
		Stell., Dr.phil. Mun.	Lectr.
<i>Mathematics (Pure and Applied)</i>			
Arndt, W. F. C., B.A. Cape,		<i>Physics</i>	
Dr.phil. Gött.	Prof.	Logeman, W. H., M.A. Cape	Prof.
Arndt, J. G. A., M.Sc., Dr.phil.		v. d. Bijl, J., M.Sc. Stell., A.M.	
Gött. (Applied M.)	Lectr.	Harv.	Asst.
van der Merwe, J. H., M.Sc.		<i>Psychology</i>	
	Asst.	Schmidt, C. H., M.A.	Stell.,
		B.Litt. Ox.	Prof.
<i>Pedagogy</i>			
Eybers, E., M.A. Edin., Ph.D.		<i>Zoology and Archæology</i>	
New York	Prof.	Dreyer, T. F., M.A. Cape, Dr.phil.	
Keyter, J. de W., M.A., B.Ed.		Halle	Prof.
Stell., Dr.phil. Mun.	Lectr.	Meiring, A. J. D., Ph.D.	Asst.

## GENERAL INFORMATION

Founded in 1855 by Sir George Grey, the College was reorganized in 1904, constituted a Univ. College in 1907, and incorporated by statute in 1910. It is 2 miles from Bloemfontein town. It provides *courses* for degrees in Arts, Science, Law, Education, and Commerce, and for the Teachers' Diplomas, and prelim. training for Med., Engin., and Agric.

HOSTELS for men and women within the Coll. grounds. Board and Residence, £55 per session. TUITION FEES: £5 per quarter (Law, £2:10s.).

EXTRA-MURAL WORK in the Faculties of Law, Arts and Commerce.

UNIV. EXTENSION lectures, chiefly by members of the staff, in Bloemfontein and other centres.

PUBLICATION: *Calendar* (Dec.).

## THE YEARS 1936, 1937

STUDENTS (1937). Full-time: 255, including 21 graduates. Part-time: 111, including 35 graduates.

DEGREES OBTAINED (1936). B.A., 42; M.A., 13; LL.B., 4; B.Sc., 6; M.Sc., 1; Ph.D., 1; B.Com., 9; M.Com., 1; M.Ed., 2.

# HUGUENOT UNIVERSITY COLLEGE, WELLINGTON, C.P.

Founded 1907

CHAIRMAN OF SENATE AND REGISTRAR—Professor FRANCES C. KILROE.

## TEACHING STAFF

<i>Botany</i>	<i>English Lang. and Lit.</i> [Prof.]
Maritz, Sheila, M.Sc. Sr. Lectr.	Newman, Gwendolen, Ox. Hons.
<i>Chemistry</i>	<i>French and German</i> [Sr. Lectr.]
Kilroe, Frances C., B.Sc. Lond.	Hansen, Christine, Ph.D. Heid.
Prof.	<i>Geography and Physics</i>
<i>Classics</i>	Talbot, Anna M., B.A. Calif.
Young, Annie M., LL.B. Lond., Classical Tripos, Camb.	Lectr.
Sr. Lectr.	<i>History</i> [Lectr.]
Rogers, Doris G., Dip. Dom. Sci.	Ventris, Eileen M. E., B.A. Lond.
Sr. Lectr.	<i>Mathematics</i> [Sr. Lectr.]
1 Asst. Lectr.	Bateman, Gertrude, M.A. Cape T., B.A. Camb.
<i>Dutch Lang. and Lit.</i>	<i>Philosophy</i> [Prof.]
Gonin, Frances C., M.A. Stell., Litt. Docts. Amsterdam Prof.	Robson, Grace M., B.A. Cape
<i>Education</i>	<i>Zoology and Physiology</i>
Aitken, Dorothy E., M.A. Ox., B.A.	Theiler, Gertrud, B.A. Cape, D. ès Sc. Neuchâtel Prof.
Sr. Lectr.	

## GENERAL INFORMATION

Originally a department of the Huguenot Seminary founded by Dr. Andrew Murray in 1874, the College was incorporated by Act of the Cape Legislature in 1907 as a College for Women and became a constituent College of the Univ. in 1918.

LIBRARY, over 10,000 vols. HERBARIUM, over 2000 specimens. LABORATORIES, Bot., Chem., Physics, Zool., Dom. Sc., Physiol., Psych.

COURSES for B.A., B.Sc., M.A., M.Sc., and Diploma in Education. Special courses in Domestic Science.

EXPENSES. Class Fees, £21 per annum. Board at the College Hostel, £45 p.a. PUBLICATION: *Calendar* (Dec.).

## THE YEAR 1936

RETIREMENT. Prof. F. C. de Wet (Education), 31.12.37.

STUDENTS. Full-time: 81, including 9 graduates. Part-time: 11.

DEGREES OBTAINED (1936). B.A., 10; B.Sc., 2; Univ. Educ. Dipl. (General), 7; Univ. Educ. Dipl. (Special), 2; Teacher's Certif. in Domestic Sci., 1; Univ. Domestic Sci. Dipl., 1.

# NATAL UNIVERSITY COLLEGE, PIETER- MARITZBURG, AND DURBAN, NATAL

Founded 1909

Address—P.O. Box 375, Maritzburg.

CHAIRMAN OF COUNCIL—F. D. HUGO, B.A., Superintendent of Education, Natal.

PRINCIPAL—Prof. J. W. BEWS, M.A., D.Sc. Edin.

REGISTRAR—.....

## TEACHING STAFF

*Accountancy and Commerce* (D.).

Oldham, O., A.C.I.S. Prof.

Byrd, K. F., M.A. Lond., A.C.A.  
(Accty.) Lectr.

*Auditing* (D.)

Byrd, K. F., M.A. Lond. Lectr.

*Botany*

Bews, J. W., M.A., D.Sc. Edin.

Prof.

Bayer, A. W., M.Sc. Lectr.

Fisher, Miss B. S., M.Sc. Lectr.

*Chemistry*

Denison, R. B., D.Sc. Leeds, M.A.

Cape, Ph.D. Bres. Prof.

Mudie, A. D., M.A., B.Sc. St. And.

Lectr.

Coblans, H., M.Sc. Lectr. (D.).

Tompkins, F. C., M.Sc., Ph.D.

Lond. Lectr.

*Classics*

Petrie, A., M.A. Aberd., B.A.

Camb. Prof.

Farrer, B. H. P., B.A. Ox., M.A.

Lectr.

*Dutch and German*

Le Roux, J. J., B.A., D.Litt.,

Ph.D. Utrecht Prof.

Nienaber, G. S., M.Ed., D.Litt.

Ghent Lectr.

Trümpelmann, J., B.A., Ph.D.

Leipzig Lectr.

*Economics and Econ. Hist.* (D.)

Burrows, H. R., M.C., M.Com.

Leeds Hudson Prof.

Halliday, I. G., B.Com. Lectr.

1 Junr. Asst. Lectr. in Econ.

*Education*

Ferguson, J. G. W., M.A. Ox. and

St. And. Prof.

Reid, A., M.A., B.Sc. Aberd.

Assoc. Prof.

*Engineering, Electrical* (D.)

Clark, H., B.Sc. (Eng.) Lond.,

D.I.C., A.C.G.I. Prof.

Phillips, W. E., M.Sc. Eng. (also

Appl. Maths.) Lectr.

*Engineering, Mech. and Civil*  
(D.)

Neal, J. H., A.R.C.S. Lond. Prof.

Thomas, W. M., B.Sc. Wales,

B.Sc. (Eng.) Leeds

Senr. Lectr.

Reim, E. P., B.Sc. Lectr.

Rigby, C. A., B.Sc. (Eng.) Mani.

Lectr.

*English and Philosophy*

Waterhouse, O., M.A. Vict. and

Leeds Prof.

(D.)=Durban.

Davies, R. E., M.A., Ph.D. Lond.	Seymour, G. E. M., B.A., LL.B.
Lectr.	Lectr. (D.)
Notcutt, B., B.A. Ox., D.Litt.	<i>Mathematics, Pure and Applied</i>
Stell.	Lectr. (D.).
<i>Fine Arts</i>	McKinnell, J., M.A., B.Sc. Glas.
[Prof.]	Prof.
Oxley, O. P. J., A.R.C.A. Lond.	Stein, P., M.A., Ph.D. Camb.,
Byrd, E. B., A.T.D. Lond.	B.A. Cape
Lectr.	Prof. (D.).
<i>French</i>	Rosenberg, R. L., M.A., Ph.D.
[Senr. Lectr.]	Berlin, D.I.C. Lond.
Leiper, Miss M. K., M.A.	Lectr.
<i>Geography and Geology</i>	Coblans, H., M.Sc.
Jehu, R. M., M.Sc. Wales, F.G.S.	Lectr. (D.).
Sr. Lectr.	Coutts, J. R. H., M.Sc. Lond.,
King, L. C., M.Sc. N.Z., Ph.D.,	F.Inst.P. (Appl. M.)
F.G.S.	Lectr.
<i>History</i>	Phillips, W. E. (also Eng., Elect.)
[Prof.]	Lectr. (D.).
Hattersley, A. F., M.A. Camb.	<i>Physics</i>
Prestwich, M. F., B.A. Camb.	Mesham, P., M.Sc. Liv.
Lectr.	Prof.
<i>Law</i>	Hodges, D. B., B.A. Cape, M.Sc.
Burchell, F. B., M.A., LL.B. Camb.	Senr. Lectr. (D.).
Prof.	Coutts, J. R. H. (also Maths.)
Sweeney, G. M. J., B.A., LL.B.	Senr. Lectr.
Lectr.	<i>Psychology</i>
(D.) = Durban.	Yule, Ella T. Pratt, M.A., Ph.D.
	St. And.
	Senr. Lectr.
	<i>Zoology</i>
	Bush, S. F., D.Phil. Ox., M.Sc.
	Sr. Lectr.

## GENERAL INFORMATION

Established by an Act of 1909, the College was opened in 1910 in the Town Hall and moved in 1912 to its own buildings (which, with equipment, cost £60,000) in the suburb of Scottsville. A new Science block and a women's hostel were added in 1921 and a hostel for men in 1928. A new wing was added in 1934 at Pietermaritzburg and a Library and Fine Arts School in 1936. Students have access to Maritzburg *Botanical Gardens* and Govt. *Museum*.

In 1926 a site of 50 acres at Stellawood was presented by the Corporation for the erection of an Engineering College, £50,000 having been given in 1924 by Mr. T. B. Davis for this purpose. Natal University College (Howard College), Durban, was opened in 1931. A new Commerce Building added in 1936.

COURSES leading to the B.A., B.A. (Fine Arts), B.Com., B.Sc., M.A., M.Sc., M.Ed., etc., 1st examn. for B.Sc. in Agric. (including 1st yr.'s course for Med. students), LL.B., Natal Law Certif. and Natal Advocates' Law examn., Survey examn. (theory only). Diploma (Post-Graduate) in Education. Faculties of Engineering and Commerce inclusive of Economics are located in Durban.

FEES. Approximately £35-£40 p.a. for tuition.

BURSARIES. A number of Bursaries are offered by the Govt., municipalities, societies, and schools.

HOSTELS for women and men students. Fees, £60 p.a.



LIBRARIES. c. 16,000 vols. at Pietermaritzburg and 5000 in Durban.

PUBLICATION. *Calendar* (March).

## THE YEARS 1936, 1937

NEW BUILDINGS (1937). *In Pietermaritzburg*. New Library and Fine Arts Building and *in Durban*—New Commerce Building opened.

NEW POSTS (1937). *In Pietermaritzburg*—A Second Lectureship in Chemistry and a Lectureship in Fine Arts.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. 1936, Mr. Harold Samuel, F.R.C.M. (London), on Beethoven. 1937, Dr. P. Geyl (Utrecht), on Dutch Influence on S. Africa.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. 1937, Mr. J. R. H. Coutts, to Rothamsted Experimental Station, for research work. Prof. E. Whittaker, to London and America, for research in Economics.

STUDENTS. Full-time: (1936), 478, including 19 graduates. Part-time: 252, including 17 graduates. (1937) Full-time, 436, including 48 graduates. Part-time: 238, including 9 graduates.

DEGREES OBTAINED (1936). B.A., 54; M.A., 3; B.A. (Fine Arts), 5; LL.B., 4; B.Sc., 18; M.Sc., 2; D.Sc., 2; B.Sc.(Eng.), 13; B.Com., 17; M.Com., 1; M.Ed., 1.

# THE POTCHEFSTROOM UNIVERSITY COLLEGE FOR CHRISTIAN HIGHER EDUCATION TRANSVAAL

Founded 1869

CHAIRMAN OF COUNCIL—Rev. W. J. DE KLERK.

RECTOR AND CHAIRMAN OF THE SENATE—Prof. F. POSTMA, D.Litt.  
Amst.

SECRETARY OF COUNCIL AND SENATE—Prof. J. C. VAN ROOY, Ph.D.  
Amst., M.A.

REGISTRAR—S. DU TOIT.

LIBRARIAN—Prof. G. DEKKER, M.A., D.Litt.

## TEACHING STAFF

### *Botany*

Goosens, A. P., M.Sc., Ph.D. Prof.  
Theron, J. J., D.Phil. Berlin,  
M.Sc. Asst.

### *Chemistry*

[Prof.  
du Plessis, D. J., Ph.D. Bonn, M.Sc.  
1 Asst.

### *Classics*

Postma, F., D.Litt. Amst. Prof.  
Postma, J., B.A. Asst.

### *Dutch and Afrikaans*

[Prof.  
Dekker, G., D.Litt. Amst., M.A.  
Labuschagne, F. J., M.A. Prof.

### *Economics*

van der Merwe, J. P., D.Litt.  
Amst., M.A. Prof.  
1 Asst.

### *Education*

[Hon. Prof.  
van der Merwe, P. J., M.A.  
Gillis, K., M.B., Ch.B. Edin.  
Hon. Prof.  
Coetzee, J. C., M.A., M.Ed.,  
D.Phil. Prof.

### *English*

Titlestad, R. M., B.A. Ox., M.A.,  
LL.B. Prof.  
..... Jnr. Lectr.

### *Geography and Geology*

van der Merwe, J. S., M.Sc. Sr. Lectr.  
Yssel, G., B.A. Asst.

### *German*

Schulze, H. G., Ph.D. Bonn, M.A.  
Dean and Prof.  
1 Asst.

### *History*

van der Walt, A. J. H., Ph.D.  
Berl., M.A. Prof.  
Kruger, D. W., M.A. Sr. Lectr.

### *Mathematics and Applied Maths.*

van Rooy, D. J., M.A. Prof.  
Malan, A. P., M.Sc. Sr. Lectr.

### *Physics*

van Wageningen, G. Prof.  
1 Temp. Demr.

### *Psychology, Logic and Meta- physics*

[Prof.  
Stoker, H. G., Ph.D. Köln, M.A.  
du Preez, D. C. S., M.A. Witw.,  
Ph.D. Amst. Sr. Lectr.

### *Politics and Law*

du Plessis, L. J., M.A., M.Econ.,  
LL.B. Prof.  
1 Asst.

<i>Sociology and Ethics</i>		de Wet, C. J. H., D.D. Amst.	
van Rooy, J. C., M.A., Ph.D.	Amst.		Prof.
		du Toit, S., M.A. Pret., M.Div.	Prof.
Retief, Miss A., B.A. Stell.	Asst.		
<i>Theology</i>		<i>Zoology and Biology</i>	
	[Prof.		[Prof.
du Toit, J. D., D.D., D.Litt. Amst.		Eiselen, G. T. S., M.Sc. Witw.	
		deVos, Miss C. M., M. Sc. Stell. Asst.	

## GENERAL INFORMATION

Founded 1869, and admitted in 1921 as a Constituent College of the Univ. of South Africa. An Amendment to the Potchefstroom University College Private Act was passed by Parliament in 1933. The full title of the College under this Act is now "The Potchefstroom University College for Christian Higher Education."

PUBLICATION. *Calendar* (Dec.).

## THE YEARS 1936, 1937

BENEFACTIONS. (1936) Sir Abe Bailey, £200; Sir Ernest Oppenheimer, £200; Reformed Church, £1750; Municipality, Potchefstroom, £150; other contributions, £1500.

NEW POSTS. (1936) Professorship of Sociology and Ethics. Senr. Lectureship in Geography and Geology. (1937) Professorship of Dutch and Afrikaans. Senr. Lectureships in History, Mathematics and Applied Maths. and in Psychology, Logic and Metaphysics. Junr. Lectureship in English. Assistantships in Botany, Chemistry, Economics, Geography and Geology, Politics and Law, Sociology and Ethics, Zoology and Biology.

STUDENTS (1936). Full-time, 316, including 33 graduates. Part-time: 4. (1937) Full-time, 359, including 39 graduates. Part-time, 16.

DEGREES OBTAINED (1936). B.D., 1; B.A., 16; M.A., 4; B.Sc., 11; M.Sc., 2; M.Ed., 4. (1937) B.A., 23; B.Sc., 4; B.D., 2; M.A., 6; M.Sc., 3; M.Ed., 3; M.Div., 2.

# RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN, C.P.

Founded 1904

*Address*—P.O. Box 94.

CHAIRMAN OF COUNCIL—Hon. Mr. Justice P. C. GANE.

MASTER AND CHAIRMAN OF SENATE—J. SMEATH THOMAS, D.Sc. Liv.,  
F.I.C.

REGISTRAR—Major E. B. WALKER, M.B.E., M.C.

## TEACHING STAFF

### *Anatomy and Physiology*

Drury, E. G. D., M.D. Lond. and  
Cape, B.S. Lond., D.P.H.  
Durh., M.R.C.S., L.R.C.P.  
Lectr.

### *Art*

Winter-Moore, A., A.R.C.A. Prof.  
Bates, Mrs. N. M. Lectr.  
Gordon-Forbes, Miss J., B.A.  
(Fine Arts) Jr. Lectr.  
Dayson, Miss E. P. D., B.A. (Fine  
Arts) Demr.  
Palmer, Miss A. A. Demr.

### *Biology*

Leeman, A. C., D.Sc. Geneva  
Hon. Lectr.

### *Botany*

Smith, N. J. G., M.A., B.Sc. Edin.,  
Ph.D. Camb. Prof.  
Britten, Miss L. L., B.A. Cape  
Sr. Lectr.  
Archibald, Miss E. E. A., M.Sc.  
Demr.

### *Chemistry and Metallurgy*

Barker, W. F., B.Sc., Ph.D. Liv.  
Prof.  
Smith, J. L. B., B.A. Cape, M.Sc.  
Stell., Ph.D. Camb. Lectr.  
Spong, A. H., M.Sc. Lond., Ph.D.  
Camb. Lectr.  
Spong, Mrs. D., B.Sc. Demr.  
Harris, T. F. W. Demr.  
Sebba, J. Demr.

Snyman, F. J. Demr.  
Read, F. O. Demr.

### *Classics*

Bowles, C. W., M.A. Camb. and  
Cape (Greek) Prof.  
Barratt, A. J., M.A. Sr. Lectr.

### *Commerce, Accounting, Business Management, etc.*

Liddell, D., M.A., B.Com. Edin.  
Sr. Lectr.  
Drennan, F. E., B.Com. U.E.D.  
(Technical) Lectr.

### *Dutch*

Dingemans, G. F., M.A. Edin. and  
Cape Prof.  
Hendrikz, Miss P. A., M.A.  
Lectr.

### *Economics and Politics*

Houghton, D. H., B.A. Ox. and S.A.  
Sr. Lectr.  
Drennan, F. E., B.Com. U.E.D.  
(Technical) Lectr.

### *Education*

Morton, D. M., B.Sc., M.A., Ed.B.  
Glas. Prof.  
Hendrikz, Miss P. A., M.A. Lectr.  
Williams, W. H., M.A., Ed.D.  
Stan. Lectr.

### *Instructors :*

Bergh, Miss I. (Needlework).  
Alberts, P. J. (Woodwork).  
Forword, Miss M. (Elocution).

Campbell, Miss H. J. (Singing).		<i>Mathematics, Pure and Applied</i>	
Sieverdink, Mrs. A. H. J. (Type-writing & Shorthand).		Burnett, D., M.A., B.Sc. Aberd., Ph.D. Camb.	Prof.
Gordon-Forbes, Miss J., B.A. (Fine Arts), (Drawing).		Wood, A. H. H., M.A. Cape	Sr. Lectr.
<i>English</i>		King, J. W., M.Sc.	Lectr.
Haworth, P., M.A. Ox., Ph.D. Innsbruck	Prof.	<i>Music</i>	
Seary, E. R., M.A., Ph.D. Sheff.		.....	Lectr.
<i>French</i>	Lectr.	<i>Physics</i>	
Guiton, P. A., B.A. Lond.	Prof.	Varder, R. W., M.A. Cape	Prof.
<i>Geography and Mineralogy</i>		Watson, S. W., B.A. Cape, M.A., Ph.D. Camb.	Sr. Lectr.
Rennie, J. V. L., M.A., Ph.D. Camb., Geog. Dip. Lond.		Elder, J. S.	Demr.
	Lectr.	Scott, H. W.	Demr.
Russell, H. D.	Demr.	Milne, D.	Demr.
Wilson, H. M.	Demr.	Plint, N. E.	Demr.
<i>Geology</i>		Gaylard, J. F.	Demr.
Mountain, E. D., M.A. Camb.	Prof.	Winter-Moore, Prof. A. (Drawing and Graphics)	Instr.
Russell, H. D.	Demr.	i Mech. Asst.	
Wilson, H. M.	Demr.	<i>Physiology, v. Anat. and Physiol.</i>	
<i>German</i>		<i>Psychology</i>	
Meyer, C. J., Cand. Lit. Amsterdam, M.O.	Germ. Lectr.	Wild, E. H., Ph.D. Lond., M.Sc.	Sr. Lectr.
<i>History</i>		Williams, W. H., M.A., Ed.D. Stan.	Lectr.
Roberts, M., M.A., D.Phil. Ox.	Prof.	Streeten, Miss R. O. P.	Demr.
Rousseau, I. J., M.A. Ox.	Lectr.	Lloyd, M. B.	Demr.
<i>Law</i>		<i>Zoology</i>	
McKerron, G. G., M.A. Edin., LL.B. Edin. and Cape	Edin., Prof.	.....	Prof.
Back, A. W., LL.B. Lond.	Lectr.	Omer-Cooper, J., M.A. Camb., M.Sc. Durh., F.L.S.	
Jennett, A., B.A., LL.B.	Lectr.	Actg. Prof. & Sr. Lectr.	
MacIntosh, J. C.	Lectr.	Howells, H. H., B.Sc. Brist.	Jr. Lectr.
Sampson, H. F., B.A.	Lectr.	Brewer, Miss M. M., B.Sc.	Demr.
<i>Logic and Ethics</i>			
Lord, A. R., M.A. Ox.	Prof.		

## GENERAL INFORMATION

Incorporated 1904. A Constituent College of the Univ. of South Africa. For historical sketch, see *Yearbook* for 1929, p. 505.

**FINE ART.** The College possesses a school specially built for the teaching of Fine Art and the Art Crafts.

**LIBRARY.** 35,000 vols.

LABORATORIES. Applied Maths., Bot., Chem., Geog., Geol., Metall., Mineral., Phys., Phys. Chem., Zool., Psychol.

COURSES. B.A., B.A. (Fine Arts), M.A., B.Com., M.Com., B.Econ., LL.B., B.Sc., M.Sc., Art Courses, Surveying, Law Certif. (Attorneys), Civil Service Law, 3 yr. Course in Music. 1st yr. Course in Med., Dent., Engin., Agric., Vet. Sci., Mining, Architecture. Diploma in Commerce, Univ. Diploma in Education.

TUITION FEE for full degree course, £26.

COLLEGE SCHOLARSHIPS open to graduates : 2 of £40, 1 of £50.

HOSTELS for 200 men ("College," "Botha," "Milner," and "Struben" Houses), 190 women ("Oriol," "Jameson" and "Beit" Houses) with dining halls, etc. Board and Residence, £63 p.a. inclusive.

PUBLICATIONS. *Calendar* (November); *The Rhodian* (twice a year).

## THE YEAR 1937

BENEFACTIONS. Annual Grants: Municipal and Divisional Councils of Eastern Province, £2500; S. Rhodesian Govt., £750; Old Rhodian Union, £200; Midland Chamber of Industries, £50; Hides and Skins Advisory Board, £400 for Tanning Research; African Explosives and Industries, £1000 for extension to Chemistry Laboratory and £150 for Chemical Research; A. E. Philip, Esq., £1000; Miss G. E. Edwards, £50 for English Literature books for College Library; Mr. John Martin, £50 to Building Fund. The Carnegie Corporation of New York, colour reproductions of American paintings.

NEW BUILDINGS. New residence being built to house 48 women students. Enlargement of Women's Dining Hall.

NEW DEPARTMENTS AND POSTS. Lectureship in Education and Psychology and in Economics and Commerce; Junior lectureships in Zoology and in Fine Arts. Dept. of Entomology—a Sub-Dept. of Zoology Dept.

EXTRA-MURAL WORK. Extension lectures by members of the staff in the Eastern Province. A Series of Wireless Talks under the auspices of the College Senate—"We Look at the World," and "Master Minds," by members of the College staff, and broadcast from the Grahamstown station of the African Broadcasting Corporation.

RESIGNATION. Miss H. J. Campbell (Music).

EXCHANGE OF STAFF. Prof. P. A. Guiton (Prof. of French, Rhodes University Coll.), to University Coll. of Swansea, Wales, on twelve months' exchange (from July 1937), with Miss E. M. Pool (Lectr. in French, Swansea University Coll.).

STUDENTS. Full-time: 440, including 55 graduates. Part-time: 48, including 4 graduates.

DEGREES OBTAINED. B.A., 46; B.A. (Fine Arts), 2; M.A., 8; LL.B., 2; B.Sc., 17; M.Sc., 8; B.Com., 6; Univ. Education Diploma, 31; Law Certif., Pt. I., 4; Pt. II., 3; Survey, Pt. I., 3; Pt. II., 1.

# UNIVERSITY OF PRETORIA

Founded 1930

CHAIRMAN OF COUNCIL—G. MOERDYK, B.A., A.R.I.B.A.

CHANCELLOR—H. J. VAN DER BIJL, M.A., Ph.D., M.A.I.E.E., M.I.R.E.

VICE-CHANCELLOR AND RECTOR—C. F. SCHMIDT, B.A.

REGISTRAR—J. C. V. BREYTENBACH, B.A., LL.B.

LIBRARIAN (Acting)—P. C. COETZEE, B.A. S.A., A.L.A.

## TEACHING STAFF

*Accountancy*, v. Commerce

*Agriculture*, v. *infra*

*Architecture and Quantity Surveying*

Bell - John, H., M.C., F.S.I.,  
L.R.I.B.A., F.I.A.A. (Quantities,  
Specifns., Bldg. Materials,  
Professional Practice) Prof.

Lecturers:

Fassler, J., B.Arch. Witw. (Architect.  
Design and Freehand Drawing).

Martienssen, R., B.Arch. Witw.,  
A.R.I.B.A. (Archit. Design  
and Hist. of A.).

McIntosh, W. G., B.Arch. Witw.,  
A.R.I.B.A., Dip. Q.S. (Town  
Planning, Struct. Design,  
Theory of Struct., Geom.  
Drawing, Hist. of A.).

Todd, C. E., A.R.I.B.A., Dip.  
Arch. Witw. (Building Construction).

van Tonder, A. J., B.A. Cape,  
M.Sc. Calif., A.C.G.I. (Graphic  
Statics, Strength of Materials,  
Surveying and Levelling).

Whale, G. R., M.R.S.I., M.I.A.  
(Sanitation and Hyg.).

*Bantu Studies*

Engelbrecht, J. A., M.A. Stell.,  
Ph.D. Berlin (Bantu Langs.).  
Prof.

Beukes, W. T. H., B.A. S.A., Ph.D.

Hamburg (Anthropol. and  
Native Admin.) Sr. Lectr.

Prinsloo, C. W., B.A. Stell., M.A.  
Lectr.

*Bio-Chemistry*, v. *infra* Vet.  
Science

*Biology*, v. Zool. and Biol.

*Botany*, v. also Vet. Science

..... Louis Botha Prof.

Elbrecht, B., B.A., M.Sc. S.A.,  
Ph.D. Utr. Prof.

Mes, Miss G., B.Sc. S.A., Ph.D.  
Utr. Sr. Lectr.

van Huyssteen, Miss D. C., M.Sc.  
Stell., Ph.D. Berlin Lectr.

2 Demrs.

*Chemistry*

Malherbe, D. F. du T., M.A. Cape,  
Ph.D. Halle Prof.

Schilz, W. E., M.Sc. S.A., Ph.D.  
Munich, D.I.C. Lond.

Sr. Lectr.

*Chemistry, Physical*

Tromp, F. J., B.A. Cape and  
Camb., D.Sc., LL.B. S.A. Prof.

2 Demrs.

*Classics*, v. also History, Ancient

Viljoen, H. G., Litt. Class. Dr.  
Gron., Dean Fac. of Arts

(Greek) Prof.

- Gonin, H. L., B.A. Stell. and Ox.,  
Litt.D. Leid. (Latin) Prof.
- Commerce and Public Administration*, v. also Auditing,  
Geog., Law, Maths.
- Arndt, E. H. D., B.A. S.A., M.A.,  
Ph.D. Columbia (Banking).  
Prof.
- Barnes, S. R., F.S.A.A.  
(Accountancy) Prof.
- Gey van Pittius, E. F. W., M.A.  
S.A., Ph.D. Lond. (Public Admin. and Polit. Sc.)  
Dean of Fac., Prof.
- Steenkamp, W. F. J., Docts.  
Merc. Rotterdam  
(C. and Indust. Econ.) Prof.
- Viljoen, S. P., M.A. Cape, Ph.D.  
Lond. (Econ. and E. Hist.)  
Prof.
- 1 Pt.-time Lectr.
- Domestic Science*, v. Agriculture  
*infra*
- Dutch, Afrikaans and Germanic Philol.*
- Bokhorst, M., Ph.D., Litt.D. Leid.  
(Hist. of Netherlands Culture)  
Prof.
- du Toit, M. L., M.A. Stell., Ph.D.  
Vienna (Hist. of Afrikaans Art and Culture) Prof.
- Le Roux, T. H., B.A. Cape, Litt.D.  
Leid. (Dutch and Germanic Philology) Prof.
- Kritzinger, M. S. B., M.A., D.Litt.  
S.A. (Dutch) Prof.
- Buning, T. J., B.A., B.Sc. S.A.,  
M.A., D.Litt.  
(Afrikaans) Lectr.
- 1 Asst. Lectr. (Hist. of Afr. Art & Culture)
- Economics*, v. Commerce
- Education*, v. *infra*
- English*
- Wallis, J. P. R., M.A. Liv. Prof.
- Partridge, A. C., M.A. Sr. Lectr.
- Knowles-Williams, Miss G., M.A.  
Jnr. Lectr.
- 4 Temp. Tutors.
- Entomology*, v. Agriculture, *infra*
- French*
- Strelen, Mrs. E. Lectr.
- Geography and Econ. Geog.*
- Plummer, F. E., M.A. Camb. Prof.
- Hugo, C. F., B.A. S.A., M.A.  
Stell. Sr. Lectr.
- Geology*
- De Villiers, L. C., Ph.D., M.E.  
Freib. Prof.
- German*
- de Villiers, W. P., B.A. Cape,  
Ph.D. and Litt.D. Ghent  
Prof.
- Mostert, L. C., D.Phil. Hamb.  
Sr. Lectr.
- Hebrew* [Prof.]
- Gemser, B., D.Litt., Th.D. Gron.
- van Selms, A., Th.D. Utr.  
Sr. Lectr.
- 1 Pt.-time Lectr.
- History*
- Bosman, I. D., M.A. S.A., Litt.D.  
Amst. Prof.
- Agar-Hamilton, I., M.A. Cape,  
M.A., B.Litt. Ox. Sr. Lectr.
- Bokhorst, M., Ph.D., Litt.D.  
Leiden Prof.
- Law*, v. *infra*
- Mathematics*
- du Toit, A. E., M.A. Prof.
- Duminy, J. P., M.A. Cape, B.A.,  
B.Sc. Ox.  
Dean, Fac. of Sci., Prof.
- de Loor, B., M.Sc. S.A., Ph.D.  
Amst. Sr. Lectr.
- Mathematics, Applied*
- Beezhold, W. F., D.Sc. Utr., M.Sc.  
Sr. Lectr.
- Mineralogy and Petrography*
- Lombaard, B. V., M.Sc. S.A.,  
Ph.D. Zurich, D.Sc. Prof.



*Music*

(in abeyance).

*Philosophy*

Hugo, T. J., B.A. Cape, Ph.D. Gron. Prof.  
 Rautenbach, C. H., B.A., B.D., M.A. S.A., D.Phil. Lectr.

*Physics*

van der Lingen, J. S., B.A. Cape, Ph.D. J. Hop., M.D.P.G., F.P.S., F.I.P. Prof.  
 Voss, V., B.A. Cape, M.A., Ph.D. J. Hop. Sr. Lectr.  
 Immelman, M. N. S., M.Sc. Cape T. Sr. Lectr.

*Political Science and Public Admin., v. Comm.**Psychology*

Skawran, P. R., Ph.D. Bonn Prof.

*Social- and Psycho-pathology*

Willemse, W. A., M.A. S.A., Ph.D. Bonn, D.Phil. Prof.

*Sociology*

Cronje, G., M.A. Stell., Litt. et Phil. Dr. Amst. Prof.  
 1 Asst.

*Theology (Dutch Reformed Church)*

Greyvenstein, J. H. J. A., B.A. Cape, Th.D. Utr. (Christian Ethics and New Test. Exegesis) Prof.  
 Gemser, B., D.Litt., Th.D. Gron. (Old Test. Exegesis) Prof.  
 Engelbrecht, S. P., Th.D. Utr. (Church Hist.), Dean of Fac. Prof.  
 Pellissier, Rev. G. M., B.A., B.D. (Comp. Religion and Philos. of Religion) Prof.  
 Wolmarans, H. P., M.A., B.D. S.A., Dr. Teol. Gron. (Philos. of Religion) Temp. Lectr.

*Veterinary Science, v. infra**Zoology and Biology*

Malan, D. E., M.A. Cape, Ph.D. Zür. (Zool.) Prof.  
 Malan, D. J., M.Sc. S.A. Sr. Lectr.  
 Brink, C., B.Sc. Stell. Lectr.  
*Zootechnics, v. infra* Vet. Science

*Education**Educational Psycho- and Social-pathology*

Willemse, W. A., Ph.D. Bonn, D.Phil. Prof.

*Educational Sociology*

Cronje, G., M.A. Stell., Litt. et Phil. Dr. Amst. Prof.

*History of Education in South Africa*

Bosman, I. D., M.A. S.A., Litt. D. Amst. Prof.

*General History and Theory of Education*

Bosman, J. C., M.A. Harv. Dean of Fac., Prof.

*Native Education*

Engelbrecht, J. A., M.A. Stell., Ph.D. Berlin Prof.

*Philosophy of Education*

Hugo, T. J., B.A. Cape, Ph.D. Gron. Prof.

*Psychology of Education*

Skawran, P. R., Ph.D. Bonn Prof.  
 5 Part-time Lectrs.

*Law**Jurisprudence, Roman and Roman-Dutch L., Internat. Private L., Comparative L.*

Pont, D., LL.D. Utr., LL.B. S.A., Dean of Fac. Prof.

*Criminal, Constitutional and Admin. L. and Public Internat. L.*

Coertze, L. I., M.A., LL.B. Stell. Prof.

Hamman, E. M., B.A., LL.B.,  
Jur. Doct. Leiden (Merc. L.)  
Sr. Lectr.

*Procedure and Evidence*

Dowling, W., B.A. Cape, B.A.,  
B.C.L. Ox. Lectr.

*Roman Law*

Reitz, R., LL.D. Amst. Lectr.

Bliss, M., B.A. S.A., LL.D. Lei-  
den, LL.B. Temp. Lectr.

**Agriculture**

*Agric. Botany*

Hector, J. M., B.Sc. Aberd. Prof.  
Wyers, Miss E. E., B.A.S.A.  
Jr. Lectr.

*Agric. Chemistry*

Ross, J. C., B.A. Cape, M.Sc.,  
Ph.D. Ill. Prof.

Theron, J. J., B.Sc.Agr. S.A.,  
Ph.D. Calif. Sr. Lectr.

van Wyk, L. P., B.Sc.Agr. S.A.  
Asst.

Wentzel, L. M., M.Sc. Cape. Asst.

*Agricultural Co-operation*

Grosskopf, J. F. W., M.A., Jur. D.  
Leiden Prof.

*Agric. Economics*

Leppan, H. D., M.C., B.Sc. (Agric.)  
Tor., M.Sc. Camb. Prof.

i Asst. Lectr.

*Agric. Engineering*

van Tonder, A. J., B.A. Cape,  
M.Sc. Calif., A.C.G.I.  
Sr. Lectr.

*Agric. Entomology*

Faure, J. C., M.A., B.Sc. Corn.  
Prof.

Janse, A. J. T., D.Sc. S.A.  
(Systematic E.) Hon. Prof.

van der Linde, W. J., M.Sc., Ph.D.  
Lectr.

*Agromony*

Pullen, A. R., M.Sc. Ill., B.Sc.Agr.  
S.A. Prof.

Haylett, D. G., M.Sc. Ill., Ph.D.  
Corn. Sr. Lectr.

*Animal Husbandry and Sheep  
and Wool*

Bosman, A. M., B.Sc. Tor. Prof.  
Bonsma, F. N., B.Sc. Agr. S.A.

Sr. Lectr.

Oosthuizen, P. M., Ph.D. Camb.,  
B.Sc.Agr. Sr. Lectr.

*Dairying*

Davel, H. B., B.Sc. Iowa  
Union Castle Prof.

*Domestic Science*

Davidtsz, Miss M. J., B.Sc.  
Columbia Prof.

van der Merwe, Miss C. R. R.,  
B.Sc. (Dom. Sc.) Lectr.

Louw, Miss L., B.Sc. (Dom. Sc.)  
Lectr.

*Grassland Research*

Ross, R. Lindsay Hon. Prof.

*Horticulture*

Powell, H. Clark, B.Sc. Calif.  
Union Castle Prof.

*Poultry, v. also Vet. Sci.*

van Rooyen, L. A., M.Sc. Corn.,  
B.Sc.Agr. S.A.

Union Castle Sr. Lectr.

*Veterinary Science, v. infra*

**Veterinary Science**

Henning, M. W., M.R.C.V.S. Prof.

*Bio-Chemistry*

Malan, A. I., D.Sc. Stell. Prof.

*Poultry Diseases*

Coles, J. D. W., B.V.Sc. Lectr.

*Vet. Anatomy*

Jackson, C., B.Sc., B.V.Sc. Prof.

Cloete, J. H. L., B.V.Sc. Lectr.

*Vet. Bacteriology and Infectious  
Diseases*

Robinson, E. M., D.M.V. Berne,  
D.V.Sc. S.A., F.R.C.V.S. Prof

- |  |   |
|--|---|
| Scheuber, J. R., D.M. Vet. Berne<br>Lectr.   | Thomas, A. D., D.V.Sc. S.A.<br>Lectr.   |
| <i>Vet. Botany</i>   | <i>Vet. Pharmacology and Toxicol.</i>   |
| Mogg, A. O. D., M.A. Camb.<br>Sr. Lectr.   | Steyn, D. G., B.Sc. Stell., Dr.Med.<br>Vet. Vienna, D.V.Sc.<br>Sr. Lectr.                             |
| <i>Vet. Hygiene, Municipal</i>   | <i>Vet. Physiology</i>  |
| Fourie, P. J. J., M.R.C.V.S., Dr.<br>Med. Vet. Utrecht Prof.                                     | Quin, J. I., D.V.Sc. S.A. Prof.   |
| Canham, A. S., F.R.C.V.S. Lond.<br>Lectr.  | <i>Vet. Surgery and Obstetrics</i>  |
| <i>Vet. Medicine</i>   | Quinlan, J. B., D.M.V. Hanover,<br>D.V.Sc. S.A., F.R.C.V.S. Prof.                                     |
| Parkin, B. S., D.Sc. S.A.,<br>M.R.C.V.S. Prof.   | Marais, I. P., B.Sc., B.V.Sc. Lectr.  |
| van Rensburg, S. W., B.A. Cape T.,<br>M.R.C.V.S. Lectr.  | <i>Vet. Tropical Diseases and Proto-<br/>zoology</i>  |
| <i>Vet. (State) Medicine</i>   | Du Toit, P. J., B.A. Cape, Ph.D.<br>Zür., D.M.V. Berl., D.Sc.<br>(Agr.) Stell., Dean of Fac.<br>Prof. |
| van Heerden, C. J., M.R.C.V.S.<br>Prof.  | <i>Zootechnics</i>  |
| <i>Vet. Parasitology</i>   | Bisshop, J. H. R., B.Sc. Agr..<br>B.V.Sc. S.A. Lectr.   |
| Mönnig, H. O., Ph.D. Zür., B.A.<br>Cape, B.V.Sc. S.A. (also En-<br>tomol. and Helminthol.) Prof. | Groenewald, J. W., B.Sc., M.Sc.<br>Ames, D.Sc. Agric. (Animal<br>Nutrition) Lectr.                    |
| <i>Vet. Pathology</i>  |   |
| De Kock, G. v. d. W., D.M.V.<br>Berne, D.Sc., M.R.C.V.S. Prof.                                   |   |
| Graf, H., B.Sc., B.V.Sc. S.A.,<br>D.V.Sc. Lectr.   |   |

## GENERAL INFORMATION

Founded 1910. For early history, see *Yearbook*, 1929, pp. 508-9.

In 1930 the Transvaal University Coll. was incorporated by Act of the Legislature of the Union of S. Africa as an independent Univ. under the title of The Univ. of Pretoria. The Univ. consists of the Chancellor, the Vice-Chancellor, the Rector, the Council, Senate, and Convocation, together with the Professors, other teachers, and students of the Univ. The Rector is *ex officio* Chairman of the Senate.

The Act provides for Faculties or Departments of Theology, Arts, Commerce and Public Administration, Education, Law, Science, Music, Agriculture, Veterinary Science, and such other Faculties or Depts. as the Council may, after consultation with the Senate, with the approval of the Governor-General and subject to the Statutes, from time to time establish.

The Faculty of Agriculture is one of two in South Africa. It is specialized along different lines from the Faculty in Stellenbosch Univ., attention being paid to Animal and Field Husbandry and Citriculture. The Faculty of Veterinary Science was grafted on to the Veterinary Research Laboratory at Onderstepoort (v. App. III. B. 4).

DEGREES. B.A., B.A. (Social Work), B.A. (Admin.), B.Com., B.Sc., B.Mus. —3 yrs. B.Sc. (Agric.), B.Sc. (Agric. Eng.), B.Sc. (Dom. Sci.)—4 yrs. B.Sc.

(Q.S.), B.V.Sc.—5 yrs. Higher degrees: M.A., M.A. (Admin.), M.Com., M.Sc., M.Sc. (Agric.)—not less than 1 yr. after corresponding Bachelor's degree; M.Ed. not less than 1 yr. after B.A. and Higher Dip. in Education or equivalent dip. LL.B., 2 or 3 yrs. after B.A.; B.D., 3 yrs. after B.A. D.Litt., D.Phil. (Arts, Com. and Pub. Admin.), D.Com., D.Mus.—not less than 4 yrs. from Bachelor's degree or 3 yrs. from Master's degree; LL.D., not less than 2 yrs. from LL.B.; D.D., not less than 3 yrs. from B.D.; D.V.Sc., not less than 4 yrs. from B.V.Sc.

**DIPLOMAS.** Quantity Surveying, 4 yrs.; Music, Commerce, Public Administration, Native Administration, Social Work, 3 yrs.; Native Education, 1 yr.; Higher Education, 1 yr. postgraduate.

**COURSES** are provided for all degrees and diplomas of the Univ. in Divinity, Arts, Commerce and Public Administration, Law, Science, Agriculture, Agricultural Engineering, Veterinary Science. Course in Librarianship may be taken concurrently with B.A. degree. Sheep and Wool is a recent addition to the list of eleven optional major subjects for B.Sc. (Agric.) degree. Special courses are available for teachers of Agriculture and of Domestic Science. Five-yr. course in Tropical Veterinary Medicine leads to degree of B.V.Sc. Full courses are available in Architecture and Surveying and special provision is made for Bantu Studies.

**FEE** for full degree course, £18 to £33.

**EXTRA-MURAL STUDIES.** A special feature of the Univ. is the work done in the Extra-mural Faculties. In a building in the centre of the town three miles from the main buildings lectures are given, out of ordinary business hours, for the benefit of public servants, article clerks, commercial men and teachers. About 300 students are enrolled, practically all for full degree courses: for B.A., Law B.A., LL.B., B.Com., B.A. (Admin.), Masters' degrees, Law Certificate, Banker's Certificate, or Diplomas in Bantu Studies and Native Administration.

**HOSTELS.** 4 for men, including the Dutch and English Church Hostels and 1 for women. Board and Residence, £54 p.a., plus £3 p.a. laundry fees.

**LIBRARY,** 100,000 vols. **LABORATORIES:** Applied Maths., Bot., Chem., Entom., Geogr., Geol., Phys., Psychology, Zool., Agric., Bot., Agric. Chem., Agronomy, Vet. Anat., Sheep and Wool, Domestic Science. **ASTRONOMICAL OBSERVATORY.** **CHILD GUIDANCE CLINIC.**

**UNIVERSITY EXTENSION.** The faculties of Agric. and Vet. Sc. co-operate with the Union Dept. of Agriculture in connexion with the extension training service organized by it. Public Lectures are being organized in Pretoria and surrounding districts.

**PUBLICATIONS.** *Calendar* (November); bulletins containing result of research by members of staff.

## THE YEARS 1936, 1937

**BENEFACTIONS.** Dr. Hans Merensky, £5000 towards the Univ. Library Building Fund. Proceeds of Fête held in May 1937 in aid of it amounted to more than £3000.

**NEW BUILDINGS.** New wing added to Women's residence and sickroom to College Hostel for men.

**NEW POSTS.** Professorships in Economics and Econ. History, in Sociology

and five in Education. Senior Lectureship in Hebrew. Lectureships in Bantu Studies and in Botany. Junior Lectureship in English.

NEW DEPARTMENTS. Mineralogy and Petrography; Social and Psychopathology.

OTHER DEVELOPMENTS. Faculty of Education constituted in place of Department. Negotiations in progress for establishment of a Faculty of Theology to meet requirements of United Dutch Reformed Church of S. Africa. Chair of Netherlands History and Culture, hitherto subsidized by "Die Nederlandse-Suid-Afrikaanse Vereeniging" taken over by Univ.

CHANGES IN REGULATIONS. Regulations drawn up in consultation with Transvaal Education Dept. to enable primary as well as secondary school teachers to obtain a B.A. or B.Sc. degree and a Teacher's Certificate after following the 4 yrs.' combined course at the Univ. and the Normal Coll.

DEATH. Sir Arnold Theiler, founder of Veterinary Research Inst. at Onderstepoort and first Dean of Fac. of Vet. Sci. (24.7.36).

RETIREMENT. Prof. J. Boxwell (Latin), 31.12.37.

RESIGNATIONS. (1936) Prof. H. H. Curson (Vet. Anat.), on apptment. as Sub-Director of Native Agriculture. Mr. G. D. Hugo, Registrar, on apptment. as Secretary to S. African Broadcasting Corporation. (1937) Prof. A. J. Norval (Comm. and Indust. Econ.), on apptment. to Bd. of Trade in the Union Dept. of Commerce and Industries. Mr. W. R. Thompson (Agronomy), on apptment. to Union Dept. of Agriculture. Prof. D. L. Scholtz (Mineral. and Petrogr.), on apptment. as Prof. of Geol., Univ. of Stellenbosch.

HONORARY DEGREES. *D.Litt.*—Mr. Jan Hendrik Hofmeyr de Waal, writer and journalist; Dirk Christiaan Hesselning, late Prof. of Greek, Univ. of Leiden. *D.Phil.*—Anton van Wouw, sculptor. *D.Sc.*—Dr. Adrianus Pyper, bacteriologist.

STUDENTS. Full-time: 1048, including 193 graduates. Part-time: 53, including 2 graduates.

DEGREES. B.D., 3; B.A., 41; M.A., 7; D.Litt., 2; B.A. (Social Work), 4; B.A. (Admin.), 5; LL.B., 5; B.Sc., 14; M.Sc., 8; D.Sc., 1; B.Sc. (Agric.), 3; M.Sc. (Agric.), 4; D.Sc. (Agric.), 1; B.Sc. (Quantity Surveying), 2; B.Sc. (Dom. Sci.), 3; M.Ed., 4; B.Com., 16; B.V.Sc., 13; Higher Dip. in Ed. 18; Dip. in Dom. Sci., 1; Dip. in Public Admin., 1; Dip. in Quantity Surveying, 4.

# UNIVERSITY OF STELLENBOSCH

Founded 1916

CHANCELLOR—Prof. A. MOORREES, Litt.D. S.A., LL.D. Cape.

VICE-CHANCELLOR—Mr. JUSTICE H. S. VAN ZYL, B.A., LL.B.

PRESIDENT OF CONVOCATION—Rev. H. J. PIENAAR, B.A.

PRINCIPAL—Prof. R. W. WILCOCKS, B.A., Ph.D.

REGISTRAR—D. J. KRIEL, B.A.

LIBRARIAN—G. V. MARAIS, M.A., B.Sc. Col.

## TEACHING STAFF

*Agriculture, v. infra*

*Anthropology, Physical*

..... Sr. Lectr.

*Bantu Ethnology*

Coertze, P. G., M.A., D.Phil.

Sr. Lectr.

Schoeman, P. G., M.A., D.Phil.

Sr. Lectr.

van Eeden, B. J. C., M.A., D.Phil.

Sr. Lectr.

*Botany*

Nel, G. C., B.A., Ph.D. Berl. Prof.

Duthie, Miss A. V., M.A., D.Sc.

S.A. Sr. Lectr.

Markötter, Miss E., D.Sc. Lectr.

*Chemistry*

van der Merwe, C. D., Ph.D.

Halle, B.A. (Inorg. C.) Prof.

van der Riet, B. de St. J., Ph.D.

Halle, M.A. (Organ. C.) Prof.

du Toit, D. F., D.Chem. Leid.,

M.A. (Phys. C.) Prof.

Sr. Lecturers:

Joubert, D. B., M.Sc., Ph.D., M.I.T.

Joubert, J. M., M.Sc., Ph.D., M.I.T.

Barnardt, J. H., M.Sc. (Bioch.)

*Classics*

van Braam, P., Litt.D. Utr., M.A.

(Latin) Prof.

Edgar, C. S., B.A. Ox., M.A. Edin.

(Greek) Prof.

Basson, J., Ph.D. Berl., M.A. (Gk.

and Classical Philol.) Prof.

Gonin, H. L., B.A., D.Litt. Amst.  
Lectr.

*Commerce*

Schumann, C. G. W., B.Sc., Comm

Dr. Rotterdam Prof.

Thomas, B. J. A. Sr. Lectr.

*Dutch and Afrikaans*

Pienaar, E. C., Litt.D. Utr., B.A.

(Dutch) Jan Marais Prof.

Smith, J. J., B.A. (Afrikaans)

Jan Marais Prof.

Malherbe, F. E. J., Litt.D. Amst.,

M.A. Prof.

van der Horst, A. W., B.A. (Afri-

kaans) Sr. Lectr.

*Economics*

[Prof.]

Botha, J. H., Comm.Dr. Rott.

*Education*

[Prof.]

Cillié, G. G., Ph.D. Stras., M.A.

Cruse, H. P., Litt.D. Amst., B.A.

(History of E.) Prof.

Taute, B., B.A. (Method) Prof.

Strasheim, J. J., Ph.D. Lond., M.A.

(Ped. Psych.) Prof.

Donald, M. M., M.A. Sr. Lectr.

Hofmeyr, Miss J. I., B.A. Sr. Lectr.

Heese, J. de V., B.A. Lectr.

Smit, J. N., B.A. Lectr.

Hofmeyr, Miss A. S., B.A. Lectr.

Stockenström, E. C., B.A. Lectr.

Neethling, Miss K. (Needlework)

Lectr.

*English*

..... Prof.

Walpole, V., M.A. Sheff. Sr. Lectr.

Hurst, H. N., M.A. Ox. Sr. Lectr.

van der Horst, A. W., B.A. Sr. Lectr.

Van Heyningen, C., M.A. Sr. Lectr.

*French*

Franken, J. L. M., Litt.D. Ghent, Prof.

M.A.

*Geography*

Serton, P., Litt.D. Utr. Prof.

Conradie, D. J., M.A. Sr. Lectr.

*Geology*

Scholtz, D. L., D.Sc. Prof.

Taljaard, M. S., D.Sc. Sr. Lectr.

*German*

[Prof.

Friedlaender, E., Ph.D. Stras.

Hoge, J., Ph.D. Stras. Sr. Lectr

*Germanic Philology*

Bouman, A. C., Litt.D. Utr. Prof.

*Hebrew*

Keet, Prof. B. B. (v. Theol.)

Actg. Lectr.

*History*

Thom, H. B., D.Phil. Prof.

Wiid, J. A., Ph.D. Mün., M.A.

(Hist. of S. Africa)

Jan Marais Prof.

*Law*

[Prof.

Malherbe, W. M. R., LL.D. Leid.

..... Prof.

van Themaat, H. V. L., Dr. Jur.,

Dr. Jur. Pol. Leiden Lectr.

de Wet, J. C., B.A., LL.B.

Temp. Sr. Lectr.

van der Westhuizen, W. M., B.A.,

LL.B. Temp. Sr. Lectr.

*Logic and Psychology* [Prof.

Wilcocks, R. W., Ph.D. Berl., B.A.

Jansen van Rensburg, J. A., M.A.,

D.Phil. Sr. Lectr.

Heese, K. W., M.A. Lectr.

*Mathematics*

Mackenzie, A. H., M.A. Aberd.

and Camb. Prof.

Stegmann, E. T., B.A., D.Sc. S.A.

Prof.

*Philosophy, Moral and Polit.*

Brümmer, N. J., M.A., B.D. St.

And. Prof.

*Physics*

[Prof.

Naudé, S. M., M.Sc., Ph.D. Berlin

Malherbe, W. E., B.Sc. Edin.,

B.A. Prof.

Cilliers, A. C., Ph.D. Frankfurt,

M.Sc. Sr. Lectr.

Harvey, S. C., B.A. Lectr.

*Physiology*

Battaerd, P., M.D. Leiden Prof.

Brink, H. E., D.Sc. Sr. Lectr.

*Social Work*

..... Prof.

Wagner, O. J. M., M.A., D.Phil.

Sr. Lectr.

Theron, Miss E., M.A. Lectr.

*Statistics*

..... Sr. Lectr.

*Theology*

Gerdener, G. B. A., M.A., Ph.D.

Gött. Prof.

van Rooyen, E. E., Th.D. Amst.

Prof.

Lategan, D., M.A., B.D. Princet.

Prof.

Keet, B. B., Th.D. Amst., M.A.

Prof.

*Zoology*

De Villiers, C. G. S., Ph.D. Zür.,

M.A. Prof.

Grobelaar, C. S., Ph.D. Berl.,

M.A. Sr. Lectr.

du Toit, C. A., Ph.D. Cape Lectr.

*Agriculture*

*Agric. Chemistry*

Malherbe, I. de V., Ph.D. Mün.,

B.A. Prof.

Steenkamp, J. L., Ph.D. Ox.	<i>Forestry</i>	[Prof.
du Toit, M. S., B.A., Ph.D. Camb.	Neethling, E. J., B.A., M.F. Yale	
Prof.	van Wijk, J. H., M.Sc., M.F. Yale	Lectr.
<i>Agric. Economics</i>	<i>Genetics</i>	
Pretorius, W. J., M.Sc. Corn.	Neethling, J. H., M.Sc. Corn.	Prof.
Prof.	<i>Home Economics</i>	
van Wyk, S. P., M.A., D.Phil. Lectr.	Louw, Miss G. J., B.Sc.	Lectr.
<i>Agric. Engineering</i>	Jooste, Miss M. E., M.Sc. (Home Econ.)	Lectr.
Burt, M. C., B.A., B.Sc. Eng. S.A.	<i>Plant Pathology</i>	
Lectr. and Hd. of Dept.	van der Byl, P. A., M.A., D.Sc. S.A.	Prof.
<i>Animal Husbandry</i>	Verwoerd, L., D.Sc. Agric.	Prof.
Reimers, J. H. W., Th. Agric. Eng. Wageningen	Dippenaar, B. J., D.Sc. Agric.	Lectr.
Swart, J. C., D.Sc. Agric.	<i>Pomology</i>	
<i>Dairy Husbandry</i>	Reinecke, O. S. H., B.S.A. Guelph, D.Sc. Agric. S.A.	Prof.
Smit, B. J., B.A., Ph.D. Wisc.	Black, M. W., M.Sc. Agric.	Lectr.
Lectr. and Hd. of Dept.	<i>Veterinary Science</i>	
<i>Entomology</i>	De Villiers, O. T., F.R.C.V.S.	Lectr. and Hd. of Dept.
Potgieter, J. T., Ph.D. Ohio, M.Sc.	<i>Viticulture</i>	
Prof.	Theron, C. J., M.Sc. Agric.	Prof.
Joubert, C. J., M.Sc. Agric.	Du Toit, A. J., B.Sc. Agric.	Lectr.
<i>Field Husbandry</i>		
Marais, J. S., Ph.D. Ill., B.A. Prof.		
Sim, J. T. R., M.Sc. S.A., B.Sc. Ill.		
Lectr.		

## GENERAL INFORMATION

For early history, see *Yearbook* for 1929, p. 512. The University was formally opened on April 2, 1918. By Act No. 45, 1926, which came into force on October 1, 1926, the Faculty of Agric. (whilst remaining for academic purposes a faculty of the Univ.) was amalgamated with the Elsenburg School of Agric., situated in the division of Stellenbosch, to form the "Stellenbosch-Elsenburg College of Agric. of the Univ. of Stellenbosch." This closer co-operation with the Dept. of Agriculture aims at the better co-ordination of resources "for the promotion of agricultural science and the development of agriculture within the Union." In the main the scientific activities are centred at the University and the practical experimental and extension work at the Elsenburg Experiment Station (2600 acres).

The College of Agriculture is in charge of the Cereal Experiment Station "Langgewens" (1150 acres) in the division of Malmesbury. Principal—Prof. P. A. van der Byl.

**FACULTIES.** Arts, Law, Education, Science, Theology, Agriculture and Commerce.

**DEGREE COURSES.** B.A. (3 yrs.), B.Sc. (3 yrs.), B.Comm. (3 yrs.); B.Sc. in Home Econ. (4 yrs.), B.Sc. in Agric. (4 yrs.), B.Sc. in Forestry (4 yrs.); LL.B. (4 yrs., or combined with B.A., 5 yrs.); M.A., M.Sc., M.Sc. in Home Econ.,



M.Sc. in Agric., M.Sc. in Forestry, M.Comm. (1 yr. post-grad.); B.Ed. (2 yrs., post-grad.); M.Ed. (3 yrs. post-grad.); D.Phil., D.Litt., D.Sc., D.Comm. (2 yrs. after M. degree); D.Sc. in Agric., D.Sc. in Forestry (1 yr. after M.Sc. or 2 yrs. after B.Sc.); LL.D. (2 yrs. after LL.B.); D.Ed. (1 yr. after M.Ed. or 2 yrs. after B.Ed.); B.D. (3 yrs. post-grad.). Courses are also provided for the Secondary Teachers' and Higher Primary Certificates; also for Certificates in Agric., Comm., Home Econ., Social Work, Nature Study, Physical Education.

**FEES.** Registration, £3 p.a. (incl. sports and fees payable to Students' Representative Council); Library, 5s. p.a. Tuition per semester for master's or bachelor's degree, £12 (B.D., £6); Doctorate, £8:10s. p.a. Laboratory per semester, £5 (max.). Examns.: For Bachelor's degree, £10; for Master's degree, £5; Doctorate, £10; LL.B., £30; B.Sc.Agric., B.Sc. in Forestry, £20. Graduation, £2. Board and Residence, £44 p.a. to £54 p.a.

**LIBRARY.** 63,699 vols.

**SPECIAL EQUIPMENT, COLLECTIONS, ETC.** The Dept. of Botany possesses a botanic garden and three hothouses containing a large collection of the peculiar xerophytic flora of South Africa. The Dept. of Agricultural Chemistry has a building and equipment for manurial pot-experiments. The Dept. of Bantu Studies is building up a collection of specimens of native art and industry. Zoological and Geological Museums. Vivarium. For Pomology, Viticulture, *see* App. III. B. 4.

**PUBLICATIONS.** *The Calendar*; *The Stellenbosch Student* (by Students' Repr. Council); *Annals of the University of Stellenbosch* (by Senate); *Die Stellenbosse Oud-student* (by Senate).

**SCHOLARSHIPS FOR GRADUATES.** Abe Bailey, £300 p.a. for 3 yrs. tenable at Oxford or any other British Univ.; Queen Victoria Memorial (women only), £200 p.a. for 3 yrs; v. also p. 627.

**EXTENSION WORK.** Public lectures by members of Staff at Stellenbosch and other places. Regular extension service under Dept. of Agric.

**RESIDENCE.** A new hostel, affording residence for 100 women students, is being built at a cost of £22,000. Altogether there are University hostels for 450 men and 409 women.

## THE YEAR 1936

**BENEFACTIONS.** Jan Marais Curators, £3289:12:6; Dr. H. Merensky, £1500; Municipal Council, £600; Countess Labia, £375; Het. Jan Marais Nasionale Fonds, £700; Tehuis-Bestuur, £388; Stellenbosch District Bank, Ltd., £310; Helpmekaar Vereniging van Kaap Prov., £300; Vroue-Komitee van die Universiteit, £100; Cape Explosive Works, £508. Other contributions, £99.

**NEW POSTS.** Professorship in Dutch, senior lectureships in Physical Anthropology and Statistics, and lectureships in Zoology, Psychology, Educational Psychology and Social Science.

**RESIGNATIONS.** Prof. R. C. Bald (English), Prof. H. F. Verword (Social Work), Prof. S. G. Shand (Geol.), C.J. G. Niehaus (Viticulture).

**DEATH.** Prof. D. G. Malan (Theol.), Feb. 1937.

HONORARY DEGREES. *D.Phil.*—Prof. Dr. A. Moorrees. *D.Sc.*—Mrs. H. M. L. Bolus.

STUDENTS. Full-time : 1206, including 286 graduates. Part-time : 46.

DEGREES. B.A., 106; M.A., 28; D.Phil., 3; B.Comm., 2; M.Comm., 1; B.Ed., 2; M.Ed., 3; D.Ed., 1; LL.B., 11; B.Sc., 34; M.Sc., 12; D.Sc., 2; B.Sc. in Home Econ., 4; B.Sc. in Agric., 11; M.Sc. in Agric., 1; B.Sc. in Forestry, 6.

# UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, TRANSVAAL

Founded 1921

Telegraphic address—University, Johannesburg.

CHANCELLOR—H.R.H. PRINCE ARTHUR OF CONNAUGHT.

VICE-CHANCELLOR—Sir ROBERT N. KOTZÉ, B.A., D.Sc.

CHAIRMAN OF COUNCIL—Sir WM. DALRYMPLE, K.B.E., LL.D.

PRINCIPAL—H. R. RAIKES, A.F.C., M.A.

PRESIDENT OF CONVOCATION—W. GRANT MACKENZIE, B.Sc. Eng.

REGISTRAR—I. GLYN THOMAS, B.A. Ox.

LIBRARIAN—P. FREER, B.A. Birm., F.L.A.

## TEACHING STAFF

*Actuarial Science, v. Maths.*

*Afrikaans and Nederlands*

van den Heever, C. M., M.A.,  
D.Litt. S.A., Litt.Docts.

Utrecht (Afrikaans) Prof.  
and Head of Dept.

Krige, J. D. A., M.A. Cape, Ph.D.  
Ghent (Nederlands) Prof.

Coetzee, A. J., M.A., D.Litt.  
Sr. Lectr.

Nienaber, P. J., M.A. S.A., Litt.  
Docts. Amsterdam Jr. Lectr.

*Anatomy*

Dart, R. A., M.Sc., M.D., Ch.M.  
Syd., F.R.S.S.Af. Prof.

Galloway, A., M.A., M.B., Ch.B.  
Aberd. Sr. Lectr.

Gillman, J., B.Sc., M.B., B.Ch.  
Lectr.

Macgregor, A. L., M.B., Ch.M.  
Edin., F.R.C.S. Eng.

Hon. Demr.

3 Pt.-time Lectrs., 1 Lab. Asst.

*Archæology*

van Riet Lowe, C., B.Sc. Cape T.,  
F.R.A.I., F.R.S.S.Af. Prof.

*Architecture and Quantity Sur-  
veying*

Pearse, G. E., A.R.I.B.A. Prof.  
Martienssen, R. D., B.Arch.,  
A.R.I.B.A. Lectr.

Hendrikz, W. de S. Lectr.  
Fassler, J., B.Arch. Jr. Lectr.

Howie, W. D., B.Arch. Jr. Lectr.  
Bell-John, H., M.C., F.S.I.,  
L.R.I.B.A. (Quantity Sur-  
veying) Pt.-time Lectr.

*Art (Fine Arts)*

Pearse, Prof. G. E. (Hist. of)  
Lectr.

*Bantu Studies*

Doke, C. M., M.A. S.A., Diploma  
Compar. Bantu, Lond., D.Litt.  
Prof.

Richards, Audrey I., M.A. Camb.,  
Ph.D. Lond.

(Social Anthropol.) Sr. Lectr.  
Pienaar, P. de V., Ph.D. Hamb.,  
M.A. (Phonetics) Sr. Lectr.

Ellenberger, Rev. R., O.I.P.  
Pt.-time Lectr.

Vilakazi, B. W., B.A. S.A. and  
Witw. Language Asst.

*Botany*

- Phillips, J., B.Sc. For., D.Sc.  
Edin., F.L.S., F.R.S.S.Af.  
Prof.  
Moss, Mrs. M., M.A. Wellesley  
Sr. Lectr.  
Gilliland, H. B., B.Sc. Edin.,  
F.L.S. Jr. Lectr.  
Weinman, H., Ph.D., Dip. Agr.  
Munich Jr. Lectr.  
1 Grad. Demr., 1 Lab. Asst.

*Chemistry and Chem. Engineering*

- Stephen, H., O.B.E., D.Sc. Manc.,  
F.I.C., F.R.S.S.Af. Prof.  
Backeberg, O.G., M.A. Ox., D.Sc.,  
F.I.C. Sr. Lectr.  
Robertson, J. B., M.A., B.Sc.,  
Ph.D. Edin., F.I.C. Sr. Lectr.  
Krige, G. J. R., M.Sc. Stell., Ph.D.  
Gött. Sr. Lectr.  
Segal, B., D.Sc. Eng., M.I.Chem.E.  
Sr. Lectr.  
Israelstam, S. S., M.Sc., A.I.C.  
Lectr.  
1 Grad. Demr., 1 Lab. Asst.

*Classics*

- Haarhoff, T. J., B.A. Cape, B.Litt.  
Ox., Litt.D. Amst. Prof.  
Wagner, A. I., B.A. Ox. and Cape,  
LL.B. S.A. and Lond.  
Sr. Lectr.  
Acheson, G. J., M.A. Ox. Lectr.

*Commerce*

- Richards, C. S., M.Com. Durh.  
Prof.  
Greenwood, H., F.S.A.A., C.A.  
S.A. Lectr.  
Reedman, J. N., M.Com. Leeds,  
Ph.D. Sheff. Jr. Lectr.  
Assts. (pt.-time) :  
Barnes, W. J., C.A. S.A.  
Emdon, M., B.Econ.  
Holmes, I. Q., M.Com. S.A.  
Jones, S. R., C.A. S.A.  
Marsh, W. E., B.Com., C.A. S.A.

- Poulton, C. J. R., B.Sc. Econ.  
Lond., C.A. S.A., A.C.I.S.  
Saron, G., B.A. Ox. and Witw.,  
LL.B. S.A.  
Thompson, C. G., B.Com., C.A.  
Thomson, J. Ramsay, C.A. S.A.  
2 Tutors.

*Dentistry, v. infra**Economics and Econ. Hist., v. also Hist.*

- Frankel, S. H., Ph.D. Lond., M.A.  
Prof.  
Shannon, H. A., B.Sc. Econ. Lond.,  
B.Com.Sc. Belf. Sr. Lectr.  
Pollak, Hansi P., M.A. Lectr.

*Engineering, v. infra**English*

- Greig, J. Y. T., M.A., D.Litt.  
Glas. Prof.  
Lawrie, J. G., M.A. S.A., D.Litt.  
Sr. Lectr.  
Hooper, A. G., M.A., Ph.D. Leeds  
Lectr.  
Jenkins, H., M.A. Lond.  
Jr. Lectr.

*French and Romance*

- Maingard, L. F., M.A., D.Lit.  
Lond., L. en D. Paris. Prof.  
Papenfus, Ethel M., B.A., Ph.D.  
Lond. Lectr.

*Geography*

- Wellington, J. H., B.A. Lond.,  
M.A. Camb. Prof.  
Jackson, S. P., B.A. Lectr.  
1 Grad. Demr.

*Geology*

- Gevers, T. W., M.A., D.Sc. Cape T.,  
Dr.Phil. Munich Prof.  
Mendelssohn, E., M.A. Harv.,  
M.Sc. Sr. Lectr.  
Welsh, Margaret E. H., B.A.,  
B.Sc. Lectr.  
Swiegers, J. U., B.Sc. Stell. and  
Witw. Jr. Lectr.

*Geophysics*

Schönland, B. F. J., O.B.E., B.A.  
Cape, M.A., Ph.D. Camb.,  
F.R.S.S.Af.  
Carnegie Price Prof.

*German*

Krige, J. D. A., M.A. Cape, Ph.D.  
Ghent Prof.  
2 Pt.-time Assts.

*Hebrew*

Landau, J. L., M.A. Cape, Ph.D.  
Vienna Prof.

*History*

Fouché, L., B.A. Cape, Ph.D.,  
D.Litt. Ghent Prof.  
Keppel-Jones, A. M., B.A. Ox.  
and Cape T. Lectr.

*Law, v. also Bantu Studies*

McKerron, R. G., M.A. Aberd.,  
B.A., B.C.L. Ox.  
Prof. and Head of Dept.  
Balogh, E., Dr.Leg. Budapest  
Prof.

Murray, J. C. (Merc. Law) Prof.  
Assts. (pt.-time) :

Johnson, C. J., B.C.L. Ox., B.A.,  
LL.B.

Murray, I. B., B.C.L. Ox., B.A.,  
LL.B.

Pollak, W., LL.B. Camb., S.J.D.  
Harv., M.A.

Suzman, A., B.A., B.C.L. Ox.,  
B.A., LL.B.

Wagner, A. I., B.A. Cape and Ox.,  
LL.B. S.A. and Lond.

*Mathematics, Actuarial Science  
and Statistics*

[Prof.]  
Dalton, J. P., M.A., D.Sc. St. And.  
Constançon, C., Dip. Ing. Zür.

Sr. Lectr.  
Kerrich, J. E., M.Sc., Dip.Act.  
Math. Edin. Sr. Lectr.

Young, F., M.A., Dip.Act. Math.  
Lectr.

Hales, A. L., B.A. Camb., M.Sc.  
Cape T., Ph.D. Lectr.

Sumner, D. B., M.A. Jr. Lectr.

*Maths., Applied*

[Prof.]

Le May, H., M.A., B.Sc. Glas.

Bleksley, A. E. H., M.Sc. Stell.,  
D.Sc. Lectr.

Cillié, G. G., M.Sc. Stell., D.Phil.  
Ox. Jr. Lectr.

*Medicine, v. infra*

*Metallurgy and Assaying, v.  
Engineering infra*

*Mining, v. Engineering infra*

*Music*

Kirby, P. R., M.A. Aberd., D.Litt.,  
F.R.C.M. Prof.

Paff, W., A.R.C.M., L.R.A.M.  
Lectr.

1 Pt.-time Lectr.

8 Instrs. (pt.-time).

*Philosophy*

[Prof.]

Hoernlé, R. F. A., M.A., B.Sc. Ox.  
Farrell, B. A., B.A. Cape T.

Jr. Lectr.

*Physics*

Paine, H. H., M.C., M.A. Camb.,  
B.Sc. Lond. and Wales,  
F.R.S. S.Af., F.Inst.P. Prof.

Evans, G. T. R., B.Sc. Wales  
Sr. Lectr.

Cooper, M. A., M.Sc., Ph.D. S.A.,  
A.Inst.P. Sr. Lectr.

Halliday, E. C., Ph.D. Cape T.  
Lectr.

Wiles, G. G., M.Sc. S.A., D.Phil.  
Ox. Jr. Lectr.

Norris, H. W. Lecture Asst.  
1 Lab. Asst.

*Physiology*

Stammers, Dighton, M.A. Camb.,  
D.Sc. S.A. Otto Beit Prof.

Osborn, T. W. B., M.Sc. S.A.,  
D.Phil. Ox., B.Sc. Sr. Lectr.

Radloff, Ellen M., B.Sc. S.A. and  
Lond., Ph.D. Yale Jr. Lectr.

Suzman, M. M., M.D. Durh.,  
M.R.C.P. Lond.

(Clin. P.) Lectr.

Du Toit, F., M.B., Ch.B. Edin.  
(Gen. Med. Psych.) Lectr.  
1 Lab. Asst.

### *Psychology*

MacCrone, I. D., M.A. Cape T. and  
Ox., D.Phil. Prof.  
Biesheuvel, S., M.A. Cape T., Ph.D.  
Edin. Lectr.

### *Social Studies*

Gray, J. L., M.A. Edin.  
(Sociology) Prof.  
..... Jr. Lectr.

### *Surveying*

Watermeyer, G. A., B.A. Cape,  
A.R.S.M. Prof.

### *Zoology and Comparative Anat.*

van der Horst, C. J., D.Sc.  
Amster. Prof.  
Paterson, Nellie F., Ph.D. Camb.,  
M.Sc. Sr. Lectr.  
Eloff, G., M.A. S.A., D.Sc. Gron-  
ingen Lectr.  
1 Lab. Asst.

### **Engineering**

v. also Architecture, Chem. and  
Chemical Engin. *supra*

### *Civil Engineering*

Sutton, W. G., B.A. Cape, B.Sc.  
(Eng.) Cape T., M.I.C.E. Prof.  
Clark, A. D., B.Sc. Lond. Sr. Lectr.  
Swart, P. R., B.Sc. Glas. Jr. Lectr.  
Magill, E. S., B.Sc. Manit. Jr. Lectr.

### *Electrical Engineering*

Randall, O. R., B.Sc. Lond., Ph.D.  
Birm., M.I.E.E. City Prof.  
Goldsmith, A., B.A. Cape, B.Sc.  
Eng. Sr. Lectr.  
Allan, J. T., B.Sc. (Eng.) Glas. Lectr.  
Bozzoli, G. R., B.Sc. Eng. Jr. Lectr.  
1 Pt.-time Lectr.

### *Highway Engineering*

..... Lectr.

### *Mechanical Engineering*

Walker, W. J., D.Sc. Eng.,  
Ph.D. St. And., M.I.C.E.,  
M.I.Mech.E. De Beers Prof.  
Gimkey, S. F., M.Sc. (Eng.) Sr. Lectr.  
Jensen, A. E., B.Sc. Lond.,  
M.Sc. (Eng.) Sr. Lectr.  
Drysdale, J. Lectr.  
Straszacker, R. L., Dr. Ing. Char-  
lottenburg, M.Sc. (Eng.) Lectr.

1 Grad. Demr., 1 Instr.

### *Metallurgy and Assaying*

Stanley, G. H., D.Sc. (Eng.),  
A.R.S.M., F.I.C., M.I.M.E.,  
M.I.M.M. Prof.  
Millin, D., B.A. Cape, F.I.C. Sr. Lectr.  
Davidson, A. C., B.Sc. Tech. Manc. Lectr.  
Siff, A., M.A. Cape T., A.R.S.M.,  
Jr. Lectr.  
1 Grad. Demr.

### *Mining*

Jeppe, C. W. B., A.R.S.M., D.I.C.,  
M.Sc. (Eng.), M.Inst.M.M. De Beers Prof.  
Hoffenberg, S. N., B.Sc. Cape,  
M.Sc. (Eng.), A.I.M.M. Sr. Lectr.

### **Medicine**

(for subjects of first 2 yrs.—  
Anat., etc., v. *supra*)

### *Anæsthetics*

[Lectr.  
Weinbren, B., M.B., Ch.B. Edin.  
Hon. Demrs. :  
Crawford, D., B.A. Camb.,  
M.R.C.S., L.R.C.P.  
Fisher, M., M.B., Ch.B. Liv.  
Feldman, D., M.B., B.Ch.

*Dermatology*

[Lectr.]

Gluckman, I., M.R.C.S., L.R.C.P.

*Diseases of Children*Mellé, B. G., B.A. Cape, M.A.,  
B.M., B.Ch. Ox., F.R.C.S.  
Edin. Lectr.Heymann, S. C., M.B., B.Ch.  
Hon. Asst. Lectr.Strawbaum, A. E., M.R.C.S. Eng.,  
L.R.C.P. Lond.  
Hon. Clin. Tutor.*Diseases of Children, Surgical*Greenberg, M., M.B., Ch.B.,  
F.R.C.S. Edin. Lectr.Lurie, D., B.M., B.Ch. Ox.,  
F.R.C.S. Eng.Hon. Asst. Clin. Lectr.  
Edelstein, J., M.B., Ch.B. Edin.,  
M.Ch. Liv., F.R.C.S. Edin.  
Hon. Clin. Tutor.*Ear, Nose, and Throat, Dis. of*Pink, W. L., M.B., B.S. Lond.,  
F.R.C.S. Lectr.Campbell, A., M.B., Ch.B., D.P.H.,  
F.R.C.S. Ed. Hon. Clin. Lectr.*Eye, Diseases of the*Meyer, R. C. J., B.A. Cape, M.D.,  
F.R.C.S. Edin., D.O. Ox.  
Lectr.Robinson, F. H., M.B., B.Ch.  
Camb., M.R.C.S.  
Hon. Clin. Lectr.*Forensic Medicine*Mackintosh, R. H., L.R.C.P. & S.  
Edin., L.R.F.P.S. Glas.  
Hon. Prof.Eagle, P. C., M.B., Ch.B. Cape T.  
Sr. Lectr.

Melzer, L., M.B., B.Ch. Lectr.

*Infectious Diseases*Bayer, P., M.D., Ch.B. Aberd.,  
M.R.C.P. Lond. Lectr.*Medical Ethics*Napier, F. H., M.B., B.S. Lond.,  
F.R.C.S. Eng. Lectr.*Medicine*Craib, W. H., M.C., B.A. Cape,  
M.A., M.D., B.Chir. Camb.,  
F.R.C.P. Lond. Prof.Gear, J. H., M.Sc., M.B., B.Ch.  
Sr. Lectr.Mackintosh, Janet, B.Sc., M.B.,  
B.Ch. Jr. Lectr.*Sr. Clin. Lecturers:*Bloom, A., M.C., M.D. Edin.,  
D.P.H. (Oral M.).

Girdwood, R. L., M.D. Edin.

Braun, L. I., M.D. Lond., M.R.C.P.

*Clin. Lecturers:*Heimann, H. L., B.A. Cape, M.D.,  
B.S. Lond., M.R.C.P.

Balkin, I. J., M.B., Ch.B. Edin.

Gordon, Mary, M.B., B.S. Durh.

8 Clinical Tutors.

*Neurology**Hon. Clin. Lectrs.:*

Geerling, R., M.D. Amst.

Katz, S. M., M.D. Liv., M.R.C.P.

*Obstetrics and Gynaecology* [Prof.]

Grant, W. Gordon, M.D. Aberd.

*Sr. Clin. Lecturers:*

Black, J., M.D. Edin., M.C.O.G.

Don, Jean, M.D. Edin., L.M.  
Dub., D.P.H. Edin.*Clin. Lecturers:*Drury Shaw, G., M.B., B.S. Lond.,  
M.R.C.S., L.R.C.P., F.R.C.S.  
Edin.Krige, C. F., M.B., B.Ch. Ox.,  
F.R.C.S. Edin.Spence Smyth, G., M.D. Dub.,  
F.R.C.P.I., M.C.O.G.

2 Tutors.

*Orthopaedics*Fouché, F. P., M.D. Edin.,  
F.R.C.S. Hon. Lectr.*Pathology and Bacteriology*Lister, Sir Spencer, LL.D. Cape T.,  
M.R.C.S., L.R.C.P., F.R.S.  
S.Af. Hon. Prof.

Strachan, A. S., M.A., B.Sc., M.D.,  
Ch.B. Glas. (Pathol.)

Hd. of Dpt. & Sr. Lectr.

Becker, J. G., M.B., Ch.B. Glas.,  
D.P.H., D.T.M. Liv.

(Bacteriol. and Para-  
sitol.) Sr. Lectr.

Becker, B. J. P., M.B., B.Ch.

Curator of Museum & Asst.

Chatgidakis, C. B., M.B., B.Ch.  
(Pathol.) Tutor & Asst.

### *Pharmacology*

Watt, J. M., M.B., Ch.B. Edin.,  
F.R.S. S.Af. Prof.

Assts. :

Breyer-Brandwyk, Mrs. Maria G.,  
Phil. Docts., Apoth. Utrecht,  
D.Sc.

Stephen-Lewis, Florence V., M.Sc.,  
M.D. Manc., M.R.C.S.,  
L.R.C.P.

Schneider, T. T., M.B., B.Ch.  
i Lab. Asst.

### *Physio-Therapy*

Woolf, E. B., M.R.C.S., L.R.C.P.  
Hon. Lectr.

### *Psychiatry and Mental Hygiene*

Russell, Wm., M.C., M.D.,  
D.Psych. Edin. Hon. Prof.

de Vos, P. J. G., M.B., B.S. Durh.  
Clin. Lectr.

Crosthwaite, F. D., M.B., Ch.B.  
Edin., D.P.H. Camb.

Clin. Lectr.

Katz, S. M., M.D. Liv., M.R.C.P.  
Lond. Hon. Clin. Lectr.

### *Public Health*

Thornton, Sir E. N., K.B.E.,  
V.D., M.R.C.S. Eng., L.R.C.P.  
Lond., D.P.H. Camb.

Hon. Prof.

Cluver, E. H., B.A. Cape, M.A.,  
M.D., B.Ch. Ox., D.P.H.  
Lond. Sr. Lectr.

Fourie, L., M.B., Ch.B. Edin.,  
D.P.H. Lond.

(Epidemiol.) Lectr.

Laing, G. D., B.Sc., M.B., Ch.B.  
St. And., D.P.H. (Urban

Health Admn.) Lectr

### *Radiology*

..... Lectr.

### *Surgery*

Brebner, I. W., M.B.E., M.A.,  
M.B., Ch.B., F.R.C.S. Edin.

Prof.

Fleming, R. J., M.B., B.Ch. (Oper.  
S.) Sr. Lectr.

Mason, A. Y., B.Sc., M.B., B.Ch.  
Jr. Lectr.

Sr. Clin. Lecturers :

Welchman, W., M.B., B.S. Lond.,  
F.R.C.S. Eng. (Oral S.)

Levin, J. J., M.B., Ch.B. Edin.

Dauth, D. J., M.D. Edin.

Clin. Lecturers :

Douglas, J. A., M.D. Edin.,  
F.R.C.S. Edin.

Pocock, W. A., M.B., B.Ch. Camb.,  
F.R.C.S. Eng., L.R.C.P. Lond.

McGregor, A. Lee, M.B., Ch.M.  
Edin., F.R.C.S. Eng.

Tucker, M., M.B., Ch.B. Cape T.,  
F.R.C.S. Eng.

4 Clinical Tutors.

### *Tropical Medicine*

Gear, J. H. S., B.Sc., M.B., B.Ch.,  
D.P.H. Lectr.

### *Urology*

Maisels, I., M.B., Ch.B. Edin.,  
F.R.C.S. Edin.

Hon. Clin. Lectr.

Brayshaw, H. C., M.B., Ch.B.  
Edin., F.R.C.S. Eng. and  
Edin. Hon. Asst. Clin. Lectr.

### *Venereal Diseases*

Gluckmann, H., M.R.C.S.,  
L.R.C.P. Lectr.



**Dentistry**

(for subjects of first 2 yrs.—Anat., etc.—and for other subjects common to D. and Medicine—Pathology, *e.g.*—*v. supra*)

Shaw, J. C. M., M.A., B.Dent.Sc. Dub., F.I.C.D., D.D.S.

Prof., also Lectr. in D. Anat., Physiol. and Histol.

*Anæsthesia, Oral*

Footte, H. J., M.B., B.Ch., L.D.S. Edin. Hon. Lectr.

*Conservative D.*

Abrams, M., L.D.S. Liv. Demr.

Coburn, G., D.D.S. Mich. Demr.

Hunter, B. M., L.D.S. Eng., D.D.S. Penn. Demr.

Shepherd, G. F., L.D.S. Liv. Demr.

Staz, J., L.D.S., R.C.S. Eng. Demr.

Shaw, Prof. J. C. M. Demr.

*D. Dis. of Children*

Cassel, D., B.A. Cape, D.D.S. Mich. Hon. Lectr.

*D. Ethics and Jurisprudence*

Eccles, B. J., L.D.S., R.C.S. Eng., M.R.C.S., L.R.C.P. Hon. Lectr.

*D. Histology*

Staz, J., L.D.S., R.C.S. Eng. Demr.

*D. Histopathology*

Friel, G., B.A. Dub., L.D.S., R.C.S.I. Demr.

ASSOCIATED INSTITUTIONS. There are several hospitals as well as the South African Institute for Medical Research (*v. App. III. B. 4*) in which students of Med. carry out a part of their curriculum.

**GENERAL INFORMATION**

For early history, *see Yearbook* for 1929, p. 518. In 1921 University College, Johannesburg, was reincorporated as the University of Witwatersrand, Johannesburg, with effect from March 1, 1922. This development was made possible partly by support from the public, including contributions by the Chamber of Mines (£50,000), Standard Bank of S.A., Nat. Bank of S.A., Central Mining and Investment Corporation, and De Beers Cons. Mines, Ltd. (£10,000

*D. Mechanics*

Berry, T. B., B.Sc.(Eng.) Cape, L.D.S., R.C.S. Eng. Lectr. and Demr.

*D. Prosthetics*

Berry, T. B., B.Sc.(Eng.) Cape, L.D.S., R.C.S. Eng. Lectr. and Demr.

Cassel, D., B.A. Cape, D.D.S. Mich. Demr.

Jackson, W. S., L.D.S. Edin. Demr.

*Orthodontia*

Braun, M. F., L.D.S., R.C.S. Eng., D.D.S. Penn. Lectr. and Demr.

*D. Radiology*

Hossack, F. A., L.D.S., R.F.P.S. Glas. Lectr. and Demr.

*Operative D.*

Hunter, B. Mitchell, L.D.S., R.C.S. Edin., D.D.S. Penn. Lectr.

*D. Pathology*

[Lectr. Friel, G., B.A. Dub., L.D.S. R.C.S.I.]

*D. Surgery*

Friel, G., B.A. Dub., L.D.S., R.C.S.I. Demr.

Gottlich, S. F., Tandarts, Utrecht. Sr. Demr.

Eccles, B. J., L.D.S., M.R.C.S. Eng., L.R.C.P. Lond. Demr.

Shaw, Prof. J. C. M. Demr.

Wilson, W. A., L.D.S. Eng. Demr.

*D. Therapeutics*

Breyer, J. H., Tandarts, Utrecht. Lectr. and Demr.

each), Sir Otto Beit (£8000), and many others, amounting in all, up to the end of 1922, to over £220,000. The Municipality provided a fine site (100 acres) at Milner Park, a mile from the centre of the town. Expenditure on buildings and lay-out up to 31st Dec. 1935 amounted to £744,096. LIBRARIES: Central, and several departmental. MUSEUMS: Several departmental.

FACULTIES. Arts, Sc., Med., Engin., Comm., Law, Dentistry.

DEGREES. B.A., B.Sc. or B.Mus., 3 yrs., Hons. 4 yrs.; B.A. in Social Studies, 4 yrs.; M.A. or M.Sc., 1 yr. after Hons. and Thesis; D.Litt., D.Phil., LL.D., or D.Sc., Thesis; B.Ed., 2 yrs. (post-grad.); M.Ed., Thesis; B.Com., 3 yrs.; M.Com., Exam. and Thesis; B.Sc. (Eng.), 4 yrs.; M.Sc. (Eng.), D.Sc. (Eng.), Thesis; B.Arch., 5 yrs.; M.Arch., Thesis; LL.B., 3 yrs. (post-grad.); LL.M., LL.D., Thesis; M.B., B.Ch., 6 yrs.; M.D. or M.S., Thesis and Examn.; B.D.S., 5 yrs.; D.D.S., Thesis. An alternative course for the B.Sc. in Mining and Metallurgy provides for employment in the mines of students in their 4th year.

DIPLOMAS. Classics, French, Afrikaans, German, Economics, Geography, Philosophy, Music, Bantu Studies, Social Studies, Public Health, Tropical Medicine and Hygiene, Psychological Medicine, Nursing, Architecture, Quantity Surveying, Actuarial Maths.; Economics of Local Govt. and Public Admin. COURSES for Teachers' Certifs., Law Certif., Civil Service Law examn., Land Surv., Professional Examns. in Accounting and Auditing.

FEES from £120 (B.A.) to £345 (M.B., B.Ch.).

SCHOLARSHIPS FOR GRADUATES. Chamber of Mines, £350 for 1 yr.; Adolph Wagner (Engin.), £150 tenable in S. Africa or overseas; University Council, 2 of £225 for 2 yrs.; Erleigh, 2 of £100-£200 p.a. (Sci. and Med.), 1-2 yrs.; Ainsworth (Modern Hist.), minimum £150 p.a. for 2 yrs. plus £50 for books, awarded every 3rd yr.; v. also p. 627.

RESIDENCE. Hostels for 160 men and 85 women. Fees, £65 p.a.

UNIV. EXTENSION. Public lectures under joint auspices of Univ. and W.E.A. Afternoon and evening courses for teachers and others in regular employment, who may by attending them qualify for B.A. degree (4 yrs.). Part-time course for B.Com. (4 yrs.).

PUBLICATIONS. *Calendar*; *Bantu Studies*; *Umpa* (S.R.C.).

## THE YEAR 1937

NEW POSTS. Senior Lectureship in Highway Engineering; Senior Demonstratorship in Dental Surgery.

BENEFACTIONS. Union Government (annual grant), £90,027 for current expenditure and interest and redemption of loans, £900 for post-grad. scholarships; Johannesburg Municipality, £12,000 for general purposes, £1000 for City Chair of Elect. Engin., £250 for Univ. Dental Hospital, £750 for teaching of Public Admin., £6000 for undergrad. scholarships and bursaries; other Witwatersrand Municipalities, £300 for teaching of Public Admin., £745 for bursaries; Witwatersrand Council of Education, £86 for general purposes, £1000 for bursaries; Witwatersrand Univ. Committee (from public subscription), £5000 for general purposes; Transvaal Society of Accountants, £250, and Incorporated Law Society of the Transvaal, £50 for general purposes; various other bodies, £1555 for scholarships and prizes.

VISITING LECTURERS. Prof. Dr. P. Geyl (Utrecht), S.A. Universities' Visiting Lecturer for 1937.

RESIGNATIONS. Mrs. A. W. Hoernle and Senator J. D. R. Jones (Bantu Studies); Mrs. M. L. Ballinger (Hist.); Adv. N. E. Coaker (Law); A. H. Murray (Philos.); W. H. Maxwell and I. P. Schabert (Obst. and Gynæcol.); G. J. Key (Psychiatry).

RETIREMENT. Miss M. V. Williams (Classics).

DEATHS. Dr. H. J. Hofmeyr, Vice-Chancellor; W. H. Jones, Accounting Officer; I. Liknaitzky (Physiol.); W. S. Heberden (Medical Ethics); F. K. Te Water (Obst. and Gynæcol.).

HONORARY DEGREES. *LL.D.*—Their Excellencies the Earl and Countess of Clarendon; Prof. Emeritus R. B. Young. *D.Sc.*—H. E. Wood.

STUDENTS. Full-time: 1837. Part-time: 442.

DEGREES. B.A. (pass), 42; B.A. Hons., 14; M.A., 7; D.Litt., 1; M.Mus., 1; B.Arch., 5; B.Com., 22; LL.B., 14; B.Sc. (pass), 30; B.Sc. Hons., 14; M.Sc., 10; D.Sc., 1; B.Sc. (Eng.), 48; M.Sc. (Eng.), 3; M.B., B.Ch., 45; M.D., 1; B.D.S., 9; D.D.S., 1. Diplomas, 13 (including 7 D.P.H.).

## THE UNIVERSITIES OF INDIA

UNIVERSITIES were first established in British India as a result of the great parliamentary inquiry into the condition of India which preceded the confirmation of the Company's Charter in 1853. It was resolved to create a properly articulated system of education from the Primary School to the University. The London University, at that time a purely examining body, which admitted to its tests only the students trained in affiliated institutions—the latest device of educational statesmanship—was taken as a model. "It had been suggested, in London, by conditions which resembled those of Bengal. . . . Its defects were not yet apparent, though it was to be profoundly modified by London itself four years later. It had the advantage of costing very little. It enabled all the existing collegiate institutions, whether Government or missionary, to be worked into the same scheme, and promised to provide a quite impartial mode of testing the qualifications of students for Government service. Above all, it gave freedom to the non-Government Colleges—all, at that date, mission colleges—to carry on their work in their own way, and offered them help from public funds for the secular side of their work" (*Report of the Calcutta University Commission, 1917-19*). In pursuance of this policy, Universities were founded in 1857 at Calcutta, Bombay, and Madras. The framers of the policy, while contemplating that the ordinary subjects of study should be dealt with by the Colleges, did not intend that the Universities should have no teaching functions, but in point of fact until about 1914 they concerned themselves solely with examinations. In 1882 and 1887 the Universities of the Panjab and Allahabad were established on similar lines. A Commission was appointed in 1902 to examine the working of the system, and the Universities Act of 1904 was designed to give effect to its recommendations as to reorganization of the government of the Universities, their assumption of teaching functions, and more effective supervision by them of the Colleges, as well as more exacting conditions of affiliation. University Professorships, Readerships, and Lectureships have accordingly been constituted in the above-named Universities, but mainly for advanced (post-graduate) courses and, except in Calcutta, only on a very small scale. Benares (Hindu), Mysore, and Patna Universities were established in 1916 and 1917. The Osmania University, Hyderabad, Deccan, was also established in 1918, though actual tuition began only in Aug. 1919.

The foundation, structure, aims and efficiency in working of institutions for higher education in India have been subjected to exhaustive re-examination by the Calcutta University Commission, 1917-19. In the University of Calcutta itself but little progress has been made towards giving effect to the far-reaching and fundamental changes recommended by this body, but their recommendations have to a great extent determined the lines on which a number of new Universities were established in 1920 and following years. Aligarh, Dacca, Lucknow,

and Allahabad may be described as unitary, teaching and residential Universities; and the University of Agra was created under an Act of the United Provinces of 1926 for the purpose of affiliating all the colleges previously associated with the University of Allahabad which had not been transferred to the Nagpur University (*see* below). Delhi has constituent colleges which are not wholly controlled by the University and may perhaps be described as residential and "semi-unitary." Patna approaches them in type. The Patna University Act of 1917 was amended by an Act in 1932 so as to make the constitution correspond with existing conditions. Part of the teaching in Delhi is carried on by the Univ. itself. The Nagpur University was established by legislation in 1923 and took over a number of colleges previously affiliated to Allahabad, to which have been added an Agricultural College. The University itself carries on the teaching of law. In 1926 an Act of the Madras Legislative Council provided for the establishment of an affiliating University at Bezwada (the Andhra University). The headquarters of Andhra University have been moved to Waltair. Bombay University was reorganized in 1928, and the new Act came into force in 1929. The report of the Bombay University Reform Committee (published 1925) recommends the establishment of a University at Poona. The latest addition to the universities of India is the Annamalai University of Annamalaiagar in Southern India, established by an Act of the Madras legislature of 1928 as a unitary, resident and teaching University, and made possible by the princely generosity of the Hon. Raja Sir Annamalai Chettiyar.

The *Review of Growth of Education in British India* \* by the Auxiliary Committee on Education appointed by the Indian Statutory Commission (generally referred to as the Hartog Report) gives an account both of recent progress in University education in India and of some of its main defects. In the smaller colleges and residential Universities the old system of mass teaching has been supplemented by valuable tutorial work, especially for Honours students. Research work, which barely existed in Indian Universities when the Islington Commission reported in 1915,† now finds its place in all the Indian Universities and the character of the staff in the unitary Universities and in central organizations of the affiliated Universities has been largely transformed. The laboratories and libraries have been greatly improved; "but the majority of University libraries are inadequate and all need great additions." There are signs that the University and College authorities are beginning to realize more fully the value of corporate life and social activities.

The Universities are turning out large numbers of graduates who cannot find employment. According to the Hartog Report "they are overcrowded with men who are not profiting either intellectually or

\* Interim Report of the Indian Statutory Commission, 1929; Cmd. 3407. H.M. Stationery Office.

† See Note by the Earl of Ronaldshay, Sir V. Chirol, and Mr. H. A. L. Fisher in Report of Royal Commission on the Public Services in India, vol. i. p. 109; Cd. 8382. H.M. Stationery Office, 1917.

materially by their university training"; and it is suggested that students who now go to Universities without being really fitted for higher work should be diverted in large numbers at an earlier stage to careers better suited to their capacity; and that if this were done money would be set free for more profitable educational uses, and the training of the best men could be appreciably improved.

CONSTITUTION. (a) The Universities of Calcutta and the Panjab are still governed by the constitution framed under the Act of 1904.\* But in its application to Calcutta the Act of 1904 is modified by Acts II. of 1905, XI. of 1911, and VII. of 1921; and the University has, under its existing powers, created important Post-graduate Councils in Arts and in Science, each with an Executive Committee. The Academic Council recently instituted by the Panjab University has been invested with important powers subject to the general control of the Senate. The constitution of the University of Madras was modified by local Acts, VII. of 1923 and XII. of 1929, with a view to establishing a teaching and residential University at Madras, while enabling the University to continue to exercise due control over the quality of the teaching given by colleges which are to constitute the University or are affiliated to it (Preamble to Act of 1923). Under these Acts there were constituted an Academic Council, Faculties, and Boards of Studies. A Council of Affiliated Colleges established in 1923 was abolished in 1929. The University of Bombay is governed by Act IV. of 1928, amended in detail by subsequent Acts, especially Act XV. of 1930. The Senate comprises the Chancellor, the Vice-Chancellor, and other Fellows, the executive government being vested in a Syndicate of 18 or 19 members, including the Vice-Chancellor and the Director of Public Instruction, and members (largely College teachers) elected by the Senate or the Faculties. There are also an Academic Council and a Board of Post-graduate Studies. The constitution and abolition of Faculties rests with the Senate.

(b) The new Universities in British India have a constitution modelled generally on that recommended for Calcutta by the Calcutta University Commission: (1) A large body called the Court, on which are represented the chief interests of the community either by election or by nomination, and including a number of ex-officio members, makes statutes and makes recommendations on the financial accounts and the annual report submitted by the Executive Council; (2) the Executive Council of some 15-20 members, elected partly by the Court, partly by the Academic Council, and including ex-officio members, is the executive authority in regard to finance and University appointments, and exercises all residual powers; (3) the Academic Council, which consists almost entirely of University teachers, is responsible for the regulation and maintenance of standards of education and examination within the University, and for the initiation of all changes in academic matters. The executive officers of the new Universities are, as under the older constitution, the Chancellor, the Vice-Chancellor, and the Registrar, but

\* A Commission has been appointed to report on University education in the Panjab.

the Governor-General is now in nearly all cases introduced as the Visitor or Lord Rector, with powers of inspection.

**ADMISSION TO THE UNIVERSITIES.** Most of the Indian Universities admit students who have passed the Final Examn. of the High Schools, and 4 years are spent at a College affiliated to the University before the student is qualified to sit for the Bachelor's Degree Examn., namely, 2 years before the Intermediate Examn. and 2 after. The Universities of Allahabad, Aligarh, Dacca, Lucknow, and Agra regard the pre-Intermediate years not as part of, but as preliminary to, University study.

Applications for **AFFILIATION** are generally submitted by the Syndicate, which must be satisfied as to the managing agency, teaching staff, provision for residence of students, equipment, financial resources, suitability of fees, etc. If granted, the courses in respect of which the College is affiliated are specified. Affiliated Colleges must comply with requisitions by the Syndicate for information, submit themselves to inspection under the Syndicate's orders, and take such action as may be ordered consequent upon such inspections. In Calcutta and Panjab Universities affiliation questions are dealt with by the Senate. The powers of affiliation by the University can in some Universities only be exercised subject to the approval of Government.

**TERMS.** University examns. are, with few exceptions, held between March and June. Admissions are made as a rule in June or July, though in many cases regular work does not commence till Sept. or Oct.

**DEGREE COURSES.** In *Arts and Science* a 2 yrs.' course leading to an Intermediate examn. is followed by a further 2 yrs.' course for the Bachelor's degree. English is generally a compulsory subject for the B.A., and in some cases for the B.Sc.; and is generally the medium of examination in all Universities except Osmania, where the medium is Urdu. Aligarh, Allahabad, Andhra, Annamalai, Benares, Dacca, Lucknow, Madras and Mysore give Honours degrees in Arts and Science requiring an additional year of study. Elsewhere the Honours degree is generally given on papers additional to those for the Pass. Agra and Osmania give no Honours degrees.

The Intermediate courses are under the control of the Universities except at Agra, Allahabad, Dacca, and Lucknow, where they are controlled by Boards of Intermediate Education.

**Agriculture.** For the B.Ag., Bombay, Nagpur, and Panjab give a 4 yr. course subsequent to matriculation. For the B.Sc. (Ag.) Madras gives a 3 yr. course, and Agra and Allahabad a 2 yr. course after an Intermediate examn. in Agriculture.

**Commerce.** The B.Com. course offered at Agra, Allahabad, Calcutta, Dacca, Lucknow, and the Panjab is generally a 3, in some cases a 2 yr., course after passing the Intermediate examn. in Arts. In Bombay it is a 4 yr. course after Matriculation.

**Education and Teaching.** Degrees and Diplomas are given at the Universities of Aligarh, Andhra, Benares, Bombay, Calcutta, Dacca, Madras, Mysore, Nagpur, Osmania, Panjab, and Patna. The titles given

for approximately equivalent qualifications differ in different Universities.

A degree open to graduates in Arts and Science after a 1 yr. course is called the B.T. at Aligarh, Benares, Bombay, Calcutta, Dacca, Mysore, Nagpur, and the Panjab, B.Ed. at Andhra, L.T. at Madras, Dip.Ed. at Osmania and Patna. At Patna the course for the B.Ed. extends over 2 yrs. after graduation. Lucknow gives a Diploma in Teaching to women graduates after a 1 yr. course. At Dacca and Calcutta the L.T. is not a degree, but a diploma open to undergraduates, after one and two years' training respectively, subsequent to the passing of an Intermediate examn. The Calcutta regulations are under revision.

*Engineering.* For B.Sc. (Engineering) Benares gives a 5 yr. course after Intermediate examn. in Science; for the B.E. or B.Sc. (Engineering) or B.C.E., Calcutta, Madras, Mysore, Osmania and Patna have a 4 yr. course, and Bombay a 2 yr. and two terms course after Intermediate examn. in Science or equivalent examn. Benares gives a B.Sc. (Engineering) in Mining and Metallurgy after a 4 yr. course.

*Law.* The LL.B. (or B.L.) course covers 2 yrs. (Calcutta and Dacca, ordinarily 3 yrs.) after graduating in Arts or Science. Degrees in Law are not at present given at Andhra, Annamalai, and Mysore.

*Medicine.* The M.B., B.S. course generally covers 5 yrs. (Bombay,  $4\frac{1}{2}$  yrs., Calcutta, 6 yrs., Patna,  $6\frac{1}{2}$  yrs.), starting from an Intermediate examn. in Science or some equivalent examn. Besides the M.B., B.S. course an L.M. and S. course is given by Osmania, of 5 yrs. after Matricn., and an L.M.P. course, by Mysore, of 4 yrs. after Matriculation. Medical degrees are given in the Andhra, Lucknow, Madras, and Panjab Universities, as well as in those above referred to.

**HIGHER DEGREES.** The M.A. and M.Sc. (for which there are in some Universities two examns.) can generally be taken by bachelors after a 2 yrs.' course, or after 1 yr. by bachelors who have taken a 3 yr. honour course. In Mysore a 2 yrs.' course is compulsory for all candidates. Madras gives an "M.A. in research" and an M.Sc. degree, by thesis. In Madras the M.A. degree was formerly conferred on Honours graduates after a certain interval; and Annamalai follows the same procedure.

In Arts, the D.Litt. degree may be taken by thesis at Allahabad by M.A.'s of 3 yrs.' standing (at Panjab by M.A.'s of 2 yrs.' standing), by thesis, after an advanced course of study of 2 yrs. At Benares it may be taken by thesis by M.A.'s of 2 yrs.' standing. At Lucknow and Mysore the degree is honorary.

The Ph.D. degree may be taken by thesis by M.A.'s of 3 yrs.' standing at Calcutta, Dacca, Lucknow, Madras, Nagpur, and Patna.

Allahabad gives a D.Litt. in Economics under conditions similar to the D.Litt. in Arts.

The D.Sc. may be taken by M.Sc.'s (in some cases, by M.A.'s in Science) of 3 yrs.' standing, by thesis, at Allahabad, Calcutta, Dacca, Lucknow, Madras, Nagpur, and Patna; at Benares and Panjab by M.Sc.'s (or M.A.'s) of 2 yrs.' standing. At Mysore the degree is honorary.

A degree of M.Ag. may be taken, by thesis, at Bombay by a B.Ag.



or L.Ag. of 3 yrs.' standing. A degree of M.Sc. (Ag.) may be taken by thesis at the Panjab by a B.Sc. (Ag.) of 2 yrs.' standing.

A degree of M.Com. may be taken at Bombay by a B.Com. of 2 yrs.' standing.

A degree of M.T. may be taken by thesis at Dacca by a B.T. of 2 yrs.' standing; and a degree of M.Ed. may be taken, similarly, at Andhra and Patna by a B.Ed. of 2 yrs.' standing.

The LL.M. (or M.L., as the case may be) of Allahabad, Benares, Bombay, Dacca, Lucknow, Madras, and the Panjab may be taken by graduates in Law of 2 yrs.' standing; in Delhi and Nagpur by those of 3 yrs.' standing. No interval is prescribed at Aligarh, Calcutta, or Patna. The LL.D. (or D.L., as the case may be) is generally given by thesis and open to LL.M.'s (or M.L.'s) of prescribed standing: at Delhi and Lucknow, 5 yrs.; Dacca, Nagpur, and the Panjab, 3 yrs.; Benares, Calcutta, Madras, and Patna, 1 yr. At Allahabad the LL.D. is given by thesis to LL.M.'s who have had 5 yrs.' professional practice.

The degrees of M.D. and M.S. (Master of Surgery) may be taken by graduates in Medicine and Surgery after intervals varying in different Universities of from 1 to 5 yrs. after graduation, mostly by examination, but in some cases by thesis; varying requirements in regard to hospital and professional practice are imposed. Bombay gives the degrees of Bachelor of Hygiene (after a 1 yr. course) and of Doctor of Hygiene (after a further 2 yr. course) to medical graduates; Madras gives a Bachelor of Sanitary Science after a 1 yr. course, and Calcutta and Lucknow give a D.P.H. after a prescribed course of study, to medical graduates.

Bombay gives a Diploma in Ophthalmology, Calcutta gives the degree of Master of Obstetrics, and Madras gives a Diploma in Midwifery to medical graduates.

At Bombay, the degree of Master of Engineering is given by thesis or examn. to Bachelors (or Licentiates) of Engineering who have practised their profession for 3 yrs. after graduation. At Calcutta, a D.Sc. in Engineering is given by thesis.

*Oriental Learning.* Besides courses for degrees in Arts in classical oriental languages and literatures (Sanskrit, Arabic, and Persian) and in vernaculars, conducted more or less on Western lines, there are degrees in Oriental Learning given in some Universities with English titles, in others with oriental titles, in some with both. The Panjab has a 2 yrs.' F.O.L. course subsequent to Matricn., followed by a 2 yr. B.O.L. (Bachelor of Oriental Learning) course and a 1 yr. M.O.L. course. A D.O.L. is open by thesis to M.O.L.'s of 1 yr.'s standing. The University also gives diplomas and "Literary Titles" in Oriental Learning. Andhra, Annamalai and Madras give "Titles" and certificates of proficiency, and offer a degree of M.O.L., by thesis, to candidates possessing certificates of proficiency. Benares has a Faculty of Oriental Learning which confers a first degree *Madhyama Pariksha* after a 3 yrs.' course, a second degree of *Shastri*, after a further 3 yrs.' course, and the degree of *Shastracharya* by thesis, 2 yrs. after the second degree.

*Theology.* Five different degrees in Hindu theology are awarded by the University of Benares, open only to Hindus after courses extending over a large number of years. Aligarh awards the degrees of Bachelor,

Master, and Doctor in (Islamic) Theology, and Osmania has a 6 yr. course leading up to the B.A. in (Islamic) Theology, and a 2 yr. course for the M.A.

**COST OF LIVING.** The cost of living varies in different Universities. The total cost (according to the *Handbook of Indian Universities*), including tuition, residence, food, etc., is as follows in certain residential Universities: Aligarh, Rs. 28 to Rs. 35 p.m.; Benares, Rs. 35 to Rs. 50 p.m.; Dacca, Rs. 20 to Rs. 22 p.m.; Osmania, about Rs. 180 per annum. Exclusive of tuition, the cost of living (*i.e.* of food and residence) is stated to be in Bombay about Rs. 50 p.m.; in Calcutta, Rs. 21 to Rs. 30 p.m.; Delhi, Rs. 15 to Rs. 30 p.m.; Mysore, Rs. 200 for 9 months; Osmania, Rs. 180 per annum.

[*Note.* 1 Rupee = 1s. 6d. approximately.]

**STATUS OF THE NEW UNIVERSITIES.** The Universities of Aligarh, Benares, Dacca, Delhi, and Patna have been incorporated by Acts of the Indian Legislature, and those of Annamalai, Andhra, Agra and Lucknow by Acts of provincial legislatures. Their degrees and exams. are recognized by the Government of India to be equal in value to those of the older Universities for the purpose of admission to public services.

Mysore and Osmania were established by local legislation in Indian States, and are not within the jurisdiction of the Government of India. The degrees of Mysore have been recognized by the Universities of Bombay, Calcutta, the Panjab, and Madras, and most of the new Universities, and by the Government of India. Osmania and Mysore degrees have been recognized by the Government of India as equivalent to those of the Universities established by law in India.

Professor Karve's scheme for an Indian University for women with headquarters at Poona has organized there, and, through affiliated institutions, elsewhere, instruction through the Indian vernacular languages adapted to the special needs of women. It is on entirely independent lines.

**NUMBER OF STUDENTS** in March 1935 in the 328 Arts and Professional (including 101 Intermediate and 2nd Grade) Colleges was 112,808, including 5512 women.

**RESIDENCE.** In 1934-35 32,167 students (including 1073 women) of Arts and Professional Colleges were accommodated in approved hostels or boarding-houses.

**CONFERENCES.** In April 1920 a Committee was formed for drafting an outline of the functions and constitution of an Association of Indian Universities. The project was further advanced at the Congress of Universities of the British Empire at Oxford in July 1921, and at a Conference of Indian Universities held at Simla in May 1924.

**INTER-UNIVERSITY BOARD.** This Board was formed in accordance with a resolution passed by the Simla Conference of May 1924. Chairman, 1937-38: Mr. C. R. Reddy, M.A., D.Litt., M.L.C., Vice-

Chancellor of Andhra University. Secretary: Prof. N. K. Sidhanta, M.A., Lucknow University. Meetings, 1937, at Nagpur and Allahabad; 1939, at Bombay.

PUBLICATIONS. *Handbook of Indian Universities* (1936, Rs. 2 or 3s.); *Bulletin of the Inter-University Board* (contains information about important changes in staff, courses of study, researches, etc., at the Univs.), half-yearly.

The VICEROY'S GOLD MEDAL, instituted in 1926 by Lord Irwin, is open for competition, annually, to undergraduates of any University incorporated by law in British India. It is awarded for the best essay on some practical problem of the day.

INDIAN STUDENTS AT THE HOME UNIVERSITIES. The Education Department of the Office of the High Commissioner for India, India House, Aldwych, London, W.C.2 (Secretary: Thomas Quayle, M.A., D.Lit. Educational Officers: P. K. Dutt, M.A., M.Sc., A.I.C.; R. M. J. Knaster, B.A.; V. I. Gaster, B.A.; N. B. Ker, M.A., LL.B.; Miss C. H. Bose, M.A.), furnishes information and advice on educational and kindred matters to Indian students who come to this country to complete or supplement their education. There are Local Advisers at the University of Manchester (J. K. Wood, D.Sc., College of Technology, Whitworth Street), and at Glasgow (R. M. Brown, D.Sc., Ph.D., M.I.M.E., Engineering Department, The University). At Edinburgh, J. E. Mackenzie, Ph.D., D.Sc. (King's Buildings, The University), is the University's Adviser to Indian students. At Oxford Indian students may secure information and advice from H. S. Williamson, M.A., Indian Institute, Broad Street, Secretary to the Delegacy for Oriental Students, and at Cambridge, from R. B. Whitehead, M.A., 22 Fitzwilliam Street, Secretary to the Inter-Collegiate Indian Students Committee.

Indian students who propose to proceed abroad for further study are strongly advised to consult the University Bureau or Advisory Committee of their Province, where they can obtain full information about British and foreign universities. The names and addresses of the secretaries are as follows: Ajmere—Superintendent of Education, Delhi and Ajmere-Merwara, Students' Advisory Committee, Rajputana, Delhi; Aligarh—S. A. Jalil, M.Sc., Information Bureau, Muslim University, Aligarh; Allahabad—The Director of Public Instruction, Allahabad; Bombay—Khan Bahadur F. M. Dastur, M.A., I.S.O., University Information Bureau, University Building, Fort, Bombay; Calcutta—P. N. Ghosh, M.A., Ph.D., Sc.D., University Students' Information Bureau, Senate House, Calcutta; Cuttack—B. N. Rohatgi, M.A. Pat., B.Sc. Lond., Information Bureau, Ravenshaw College, Cuttack, Orissa; Dacca—M. I. Borah, M.A., B.L. Dac., Ph.D. Lond., University Students' Information Bureau, Dacca, Bengal; Delhi—S. N. Mukarji, M.A., Indian Students' Advisory Committee, Delhi; Gauhati—J. Borooah, Barr.-at-Law, Indian Students' Advisory Committee, Gauhati, Assam; Karachi—K. L. Hingorani, Students' Advisory Committee, Sind; Lahore—M. G. Singh, M.A., Punjab University Foreign Information Bureau, Lahore; Madras—Capt. M. Abdul

Hamid, M.B.E., B.A. Ox., University Students' Information Bureau, Christian College, Madras ; Mysore—V. Gopalaswami Aiengar, M.A., Registrar, Mysore University and Secretary, University Students' Information Bureau, Maharaja's College, University of Mysore ; Nagpur—K. R. Pandya, University Information Bureau, Nagpur University, Nagpur ; Patna—M. Q. Doja, B.A. Camb., B.Sc. Pat., F.C.S., University Students' Information Bureau, Patna, Bihar ; Peshawar—T. C. Orgill, M.A., I.E.S., University Students' Advisory Committee, Peshawar, N.W.F.P.

The High Commissioner for India is prepared at the request of parents and guardians in India to make arrangements for the supervision of the studies and personal welfare of a limited number of Indian students, and for the administration of funds remitted to him for the purpose. The Secretary to the Oriental Delegacy at Oxford, the Secretary to the Inter-Collegiate Indian Students Committee at Cambridge, the University Adviser at Edinburgh, and the Local Advisers to Indian Students at Manchester and Glasgow, act on behalf of the High Commissioner in the case of students proposing to study at those centres. Inquiries may be addressed either direct to the addresses given above or through the Office of the High Commissioner for India, Education Department. The Department publishes the *Handbook for Indian Students—a Guide to the Facilities for University and Professional Studies and Training in the United Kingdom*, the Eighth Edition of which was published early in 1938. An annual Report on the work of the Department is also published, copies of which may be obtained from the office of the High Commissioner or through the agents for the sale of Government of India publications.

The Hyderabad Government has a Scholarship Committee to regulate the grant of scholarships and give necessary information to students proceeding out of India, and has a special paid guardian for Hyderabad students (B. C. McEwen, M.C., B.Sc. Lond., Brandon House, Rowfant, Crawley, Sussex) to look after and report about their progress whilst in Europe.

### Note

The arrangement of Oriental names in the directory sections has been adopted for convenience of reference and for indexing purposes.

# AGRA UNIVERSITY

Founded 1927

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES.

VICE-CHANCELLOR—PRAFULLACHANDRA BASU, M.A., Ph.D., B.L.,  
Principal, Holkar College, Indore.

REGISTRAR—PANDIT SHYAM SUNDAR SHARMA, M.A.

## AFFILIATED COLLEGES

[M.A., etc., after name of College = teaching up to M.A., etc., standard.]

AGRA COLLEGE. M.A.; M.Sc.; LL.B. Principal and Prof. of *Chemistry*—  
H. Krall, B.A. Dub., B.Sc., Dip. Educ., F.I.C.

AGRA, *St. John's College*. M.A.; B.Com.; M.Sc. Under the general control  
of the Church Missionary Society. Admits non-Christians, but is especially  
for Christians. Principal—Rev. Canon T. D. Sully, M.A. Ox.

AJMER, *Government College*. B.A.; B.Sc. Principal—P. Seshadri, M.A.  
Mad.

AJMER, *Mayo College*. B.A. Principal—V. A. S. Stow, M.A., C.I.E., V.D.,  
I.E.S.

BAREILLY COLLEGE. M.A.; M.Sc.; LL.B. Principal—A. C. Dutt, M.A.  
All. and Luck., M.R.A.S. Lond.

BIKANIR, *Dungar College*. B.A. Principal—M. N. Tolani, M.A. Bom.

CAWNPORE, *Christ Church College*. M.A.; M.Sc. Principal—S. C.  
Chatterji, M.A. Panj.

CAWNPORE, *Dayanand Anglo-Vedic College*. M.A.; B.Sc.; LL.B.; B.Com.  
Principal—L. Diwan Chand, M.A. Panj. and Calc.

CAWNPORE, *Government Agricultural College*. B.Sc. Agric. Principal—  
P. K. Dey, M.Sc., I.A.S.

CAWNPORE, *Sanatan Dharma College*. M.A.; B.Com.; LL.B. Principal—  
H. K. Bhattacharya, M.A.

GORAKHPUR, *St. Andrew's College*. B.A. Principal—Rev. E. C. Dewick,  
M.A. Camb.

GWALIOR, *Victoria College*. M.A.; B.Sc. Entirely supported by the State.  
Principal—H. M. Bull, M.A. Camb.

INDORE, *Christian College*. M.A. Principal—Rev. A. A. Scott, M.A.,  
B.D. Tor.

INDORE, *Holkar College*. M.A.; M.Sc.; LL.B. Maintained by the State.  
Principal—P. Basu, M.A., Ph.D., B.L. Calc.

JAIPUR, *Maharaja's College*. M.A.; M.Sc. Maintained by the State.  
Principal—M. R. Oak, M.A. Calc. and Panj.

JODHPUR, *Jaswant College*. B.A. Maintained by the State. Principal—  
P. P. Shahani, M.A. Bom.

MEERUT COLLEGE. M.A. ; M.Sc. ; LL.B. Principal—Col. T. F. O'Donnell, M.C., V.D., B.A. Dub.

## GENERAL INFORMATION

Act VIII. of 1926 of the United Provinces Legislature, which received the assent of the Governor-General on Oct. 20, 1926, provides for the establishment of a university "for the purpose of affiliating the colleges associated with the University of Allahabad . . ." so as to set it free to function as a unitary, teaching, and residential institution. It empowers the Agra University to affiliate colleges in the United Provinces, Rajputana, Central India, and Gwalior, except within the limits of the Universities of Allahabad and Lucknow, or within a radius of ten miles from the Benares Hindu University or from the Aligarh Muslim University. To supplement the work in affiliated colleges the University may institute teaching posts at selected centres.

Five categories of persons are to be eligible, subject to prescribed conditions, for degrees and other academic distinctions : (a) candidates who pass the University's examinations after pursuing an approved course at an affiliated college ; (b) teachers who pass the University's examinations ; (c) inspecting officers in the Department of Education who pass the University examinations ; (d) research workers ; (e) women who have carried on private study. Lectures and instruction may be provided by the University for, and diplomas may be granted to, persons other than students of an affiliated college.

The supreme governing body of the University is the Senate, the other principal authorities being the Executive Council, Academic Board, Board of Inspection, and Faculties of Arts, Science, Law, Commerce, and Agriculture. The Vice-Chancellor, an honorary officer elected by the Senate, is the principal executive and academic officer.

Students are not eligible for admission to a degree course unless they have passed the Intermediate Examination of the Board of High School and Intermediate Education of the United Provinces, or of an Indian University incorporated by law, or an equivalent examination.

The Act came into force on July 1, 1927, and all the constituent bodies of the Univ. have been formed. The Univ. held its first exams. in 1928.

DEGREES. B.A., M.A., D.Litt. ; B.Com. ; LL.B., LL.M. ; B.Sc., M.Sc., D.Sc. ; B.Sc.(Agr.).

COURSES. B.A., B.Sc., 2 yrs. Candidates must have passed (i.) the Intermed. Examn. of the Bd. of High School and Intermed. Edn., U.P., or of the Bd. of High School and Intermed. Edn. for Rajputana (including Ajmer-Merwara), Central India and Gwalior or of an incorporated Indian Univ. ; or (ii.) the Higher School Certif. Examn., conducted by the Syndicate of the Univ. of Cambridge ; and have attended a regular course of study in an affiliated college.

B.Com., 3 yrs. Candidates must have passed (i.) the Intermed. Examn. of the Bd. of H. Sch. and Intermed. Edn., U.P., or of an incorporated Indian Univ. or (ii.) the Commercial Diploma Examn. of Allahabad Univ. or of the Bd. of H. Sch. and Intermed. Edn., U.P. ; or (iii.) the Intermed. Examn. in Commerce of the Bd. of H. Sch. and Intermed. Edn., U.P. or Rajputana (incl. Ajmer-Merwara), Central India and Gwalior ; or (iv.) the Intermed. (Group B—special) Examn. of Delhi Univ. with Regional and Commercial Geogr. as optional subject ; or (v.) the Intermed. Examn. of the Andhra Univ. with Economics, Commercial Geography and Accountancy as optional subjects. Candidates who have passed (ii.) (iii.) (iv.) or (v.) will be exempted from the 1st yr. of the course.

LL.B. Graduates in Arts, Commerce, Science or Agric. who complete a regular course of study in a Law Class in an Affiliated College for 1 yr. are eligible for admission to the Previous Examn., and after 1 further yr. to the Final Examn.

B.Sc.Agr. Candidates must have passed the Intermed. Examn. in Agric. of the Bd. of H. Sch. and Intermed. Edn., U.P., or any other examn. in Agric. recognized by the Univ. as equivalent thereto, and have attended a regular course of study in an affiliated college for 2 academical yrs.

*Higher Degrees.* M.A., M.Sc., 2 yrs.' course in an affiliated college. Two examns.—Previous and Final.

LL.M., 2 yrs. after LL.B. Two examns.—Previous and Final.

D.Litt., D.Sc. Awarded on basis of an original thesis upon any subject within the Fac. of Arts and Sci. respectively. Open to masters of Arts and masters of Science of at least 3 yrs.' standing, (i.) of the Univ., or (ii.) of Allahabad Univ., who at time of passing the Master's Examn. were students of Colls. associated with that Univ. and now affiliated to Agra Univ., or (iii.) of any other incorporated Univ. recognized for this purpose by the Exec. Council who have been resident within the territorial limits of Agra Univ. for 3 yrs. immediately preceding date of their application.

SCHOLARSHIPS. 10 research scholarships of Rs. 50 each tenable for 8 months in an affiliated coll. The following post-grad. scholarships of Rs. 30 per mensem tenable for 2 yrs., are awarded annually for precedence in First or Second Division on results of the respective degree examn.:—15 M.A., on result of B.A. examn.; 10 M.Sc., on result of B.Sc. examn.; 3 M.A., on result of B.Com. examn.; 2 M.Sc., on result of B.Sc. (Agr.) examn. A large number of scholarships and medals awarded by the 12 affiliated colls. to their own students.

PUBLICATION. *Calendar* (August).

## THE YEAR 1936-37

DEVELOPMENTS. The University library being developed in order to encourage research and supplement the libraries of affiliated colleges in subjects in which research is being carried on. Publication of an annual journal in two parts under consideration—(a) Orig. research work; (b) General, containing summaries of Extension Lectures and other articles.

CHANGES IN REGULATIONS. Courses for a B.Sc. Degree in Pharmaceutica Chemistry approved.

EXTRA-MURAL WORK. As in previous years arrangements were made for University Extension lectures at each of the affiliated colleges.

DEATHS. Rai Bahadur Pt. Kharagjit Misra, M.A., LL.B., Nov. 1936, and Sahib Maharaj Sir Anand Swarup, June 1937, members of the Senate of the Univ.

STUDENTS. Full-time: 4132, including 1092 graduates.

DEGREES. B.A., 813; M.A., 152; LL.B., 260; B.Sc., 174; M.Sc., 24 B.Com., 87; B.Sc. (Agr.), 39.

# ALIGARH MUSLIM UNIVERSITY, ALIGARH

Founded 1920

LORD RECTOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—HIS EXALTED HIGHNESS LIEUT.-GENERAL SIR USMAN  
ALI KHAN BAHADUR, Fateh Jung, G.C.S.I., G.B.E., Hyderabad  
(Deccan).

PRO-CHANCELLOR—H.H. THE RT. HON. AGA SIR SULTAN MOHAMMED  
SHAH, Aga Khan, G.C.S.I., G.C.I.E., G.C.V.O., P.C.

VICE-CHANCELLOR—Sir ZIAUDDIN AHMAD, C.I.E., M.A., Ph.D., D.Sc.,  
M.L.A.

PRO-VICE-CHANCELLOR—A. B. A. HALEEM, B.A. Ox.

TREASURER—K. B. MOULVI HAJI MOHD. OBEDUR RAHMAN KHAN  
SAHIB SHERWANI.

REGISTRAR—AZMAT ELAHI ZUBERI, B.A., LL.B.

LIBRARIAN—S. BASHIRUDDIN, M.A.

## TEACHING STAFF

### *Arabic*

..... Prof.  
Memon, Abdul Aziz Reader.\*  
Ali, Abid Ahmad, M.A., LL.B.,  
D.Phil. Ox. Reader.  
Mansur, A. H., Ph.D. Lectr.  
1 Grade II. Lectr.

Desai, R. D., D.Sc. Lond., B.A.,  
M.Sc. Reader.  
Bakhsh, A., M.A., B.Sc. All. Lectr.  
Ahmad, N. Lectr.  
1 Grade II. Lectr., 1 Demr., 2 Jnr.  
Demrs.

### *Economics*

*Botany*  
Khan, Rafiq Ahmad, Ph.D. Camb.,  
M.Sc. Ben., B.Sc. All.  
Reader.\*  
Hyder, Asghar Ali, Ph.D. Ber.,  
B.Sc. All. Lectr.  
1 Grade II. Lectr., 1 Demr., 1 Jnr.  
Demr.

Hyder, L. K., C.I.E., B.A. All. and  
Camb., Ph.D. Heid. Prof.\*  
Shafi, S. M., B.Sc. Lond. Lectr.  
Uddin, S. M., M.A. Lectr.  
Attaullah, S., M.A. Lectr.  
1 Grade II. Lectr.

### *Education*

*Chemistry*  
..... Prof.  
Haider, M., M.A. Camb., B.A. All.,  
B.Sc. Lond. Reader.\*

Saiyidain, K. G., M.Ed. Leeds,  
B.A. Prof.\*  
Rahman, Habibur, M.A. All. and  
Birm., L.T. All. Lectr.  
Husain, Tajammul, B.T. Panj.,  
M.A. Lectr.

\* Chairman of Dept.



Siddiqi, W. H., B.A., L.T. Lectr.  
 Husain, Ishrat, M.A. Leeds, B.A.  
 Lectr.

2 Supervisors.

### *English*

Fielden, F. J., M.A. Lond. and  
 Camb. Prof.

..... Reader.

Husain, Khwaja Manzoor, B.A.  
 Ox., M.A. Reader.

Ali, Mukhtar Hamid, M.A. Lectr.

Hasan, Syed M., M.A. Lectr.

6 Grade II. Lectrs.

### *Geography*

Khan, Ibadur Rahman, B.A.,  
 L.T. All., Ph.D. Lond.

Reader.\*

Ahmad, Q. Saiduddin, M.A., LL.B.

Lectr.

2 Grade II. Lectrs., 2 Demrs., 2  
 Jnr. Demrs.

### *History and Polit. Science*

Haleem, A. B. A., B.A. Ox. Prof.

Habib, Mohd., B.A. Ox. Prof.\*

Halim, A., M.A. Dac. Lectr.

Rashid, S. A., M.A., LL.B.

Lectr.

Siddiqi, A. H., B.A., Ph.D. Lond.,

B.A., LL.B. Lectr.

3 Grade II. Lectrs.

### *Islamic Studies*

..... Reader.\*

..... Lectr.

### *Law*

Khaliq, Abdul, K. B., B.A., LL.B.

Reader.\*

Khusro, M. Ishaq, M.A. Camb.

Lectr.

Ishaq, K. M., B.A., LL.B. Lectr.

..... Lectr.

..... Lectr.

### *Mathematics*

..... Reader.

Kureishy, A. M., M.A. Reader.\*

Shah, S. M., M.A. Lond. Lectr.

Hussain, Munnawar, B.Sc. Lond.

Lectr.

2 Grade II. Lectrs.

### *Medicine and Surgery (Unani)*

Butt, A., M.D. Principal.\*

### *Lecturers :*

Latif, Hakim Abdul.

Afzal, Mohd.

Shah, Inayatullah.

Khan, H. Zahiruddin.

Owais, Shah Mohd.

Farooqi, M. M. Aqil.

Ibrahim, Mohd.

Khan, H. Zargham Ali.

Bilgrami, Q. Raoof Ahmad.

Nasar, H. Abdullah Khan.

1 Demr.

### *Persian*

Hasan, Syed H., B.A. Camb.,

B.Sc. Bom., Ph.D. Lond.

Prof.\*

Khan, Haji Hamiduddin, M.A.

All. Reader.

Ahmad, Zia-i, M.A. All. Lectr.

1 Grade II. Lectr.

### *Philosophy*

Hasan, Syed Z., M.A. All., D.Phil.

Ox. and Erlangen Prof.\*

Sharif, M. M., B.A. Camb. Reader.

Umaruddin, M., M.A. Lectr.

Ahmad, M. M., M.A. (on leave)

Pt.-time Lectr.

Makhdam, M. M., M.A.

Pt.-time Lectr.

1 Grade II. Lectr.

### *Physics*

..... Prof.\*

Asundi, R. K., M.Sc., Ph.D. Lond.

Reader.

Ishaque, S. M., M.A., M.Sc., B.T.,

Ph.D. Lond., D.I.C. Lectr.

1 Grade II. Lectr., 1 Demr., 1 Jnr.

Demr.

### *Theology*

Ashraf, Suleiman Haji

(Sunni) Reader.\*

Abu Bakr, Md. M. Shis

(Sunni) Dean & Lectr.

Nabi, S. S. (Shia) Dean & Lectr.

### *Sanskrit*

[Grade II. Lectr.

Shastri, Pandit Ram Sarup

### *Urdu*

Siddiqi, R. A., M.A. All. Reader.\*

Ahasan, Maulana Syed Ali Lectr.

1 Grade II. Lectr.

### *Zoology*

[Reader.\*

Mirza, Babar, D.Ph. Frankf.

Sharif, M., D.Sc., Ph.D. Camb.

Lectr.

1 Grade II. Lectr., 2 Demrs.

### *Medical Officer :*

Mufti, F. H.

2 Assts.

### *Univ. Engineer :*

.....

\* Chairman of Dept.

## GENERAL INFORMATION

The Mahomedan Anglo-Oriental College, founded in 1875, became, under the Aligarh Muslim University Act of 1920, a unitary residential University, with Univ. School and Intermediate College attached as separate institutions. The Intermediate Coll. was abolished in 1932, the Intermediate classes being absorbed in the Univ. proper. The Univ. receives Rs. 3,00,000 annually from the Govt. of India, Rs. 1,52,012 from the Local Govt., Rs. 60,000 from H.E.H. the Nizam of Hyderabad, and contributions from other Indian States. Although the governing body is composed of Mahomedans, and special attention is paid to Muslim Theology, it is open to all, without distinction of sex, race, creed, or class. In the grounds, comprising several square miles, are halls and hostels sufficient for the accommodation of all the students and some of the staff. LIBRARY, 36,000 vols., besides a collection of MSS. on Oriental Lit. LABORATORIES : Physics, Chem., Botany and Zoology.

The Muslim UNIV. SCHOOL is a feeder to the University and a practising school for the TRAINING COLLEGE. The Univ. also maintains the Muslim University City High School run on less expensive lines, and a Tibbiya College to impart instruction in indigenous medicines of Muslim origin.

COURSES. For students who have passed the High School or Matricn. Examn. of an Indian Univ. a 2 yr. Intern. course in Arts or Sci. For students who have passed the Intermediate examn. of an Indian Univ. : two-year course for the B.A. or B.Sc. ordinary and 3 yrs for B.A. or B.Sc. with hons. One yr. for Teaching Certificate. Courses leading to M.A., M.Sc., LL.B., B.T. (Bachelor of Teaching), B.Th. (Bachelor of Theol.), and Ph.D. degrees are also provided. FEES : for Tuition, Rs. 6 to Rs. 15 p.m. ; Board and residence about Rs. 20 p.m.

SCHOLARSHIPS FOR GRADUATES, enabling them to proceed to higher degrees, are awarded. One of Rs. 75 p.m. for research in Arabic, open to M.A. Two fellowships, Rs. 75 p.m. for 2 yrs. for research in Science and Arts respectively. There is a loan fund for helping poor students.

PUBLICATIONS. *Calendar* (published irregularly) ; *Prospectus* ; *University Journal* ; *University Magazine* (English and Urdu).

## THE YEAR 1936-37

BENEFACTIONS. H.H. the Nawab of Khairpur, Rs. 6000 for Technical Institute and Military College. Other donations from Khaipur State, Rs. 1194. From Karachi and Shikarpur, Rs. 15,361.

NEW DEVELOPMENTS. Urdu included as an optional subject in the B.A. Examn. of the Univ. The Aligarh Fort handed over by the Govt. to the Univ. Willingdon Cricket Pavilion built. Technical Workshop under construction. Muslim Girls' Inter. College raised to Degree standard. Society of Islamic Culture and Majlis-i-Islamiat started. Establishment of a Military College under consideration.

STUDENTS. Full-time : 1672, including 594 graduates.

DEGREES. B.A., 161 ; B.A. and B.Sc. (Hons.), 9 ; M.A., 66 ; LL.B., 69 ; B.Sc., 55 ; M.Sc., 18 ; B.T. (Theory), 40 ; (Practice), 43 ; Ph.D., 5.

# UNIVERSITY OF ALLAHABAD

Founded 1887

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR AND CHAIRMAN OF THE COURT AND ACADEMIC COUNCIL—PANDIT IQBAL NARAIN GURTU, M.A., LL.B.

TREASURER—RAI BAHADUR PANDIT KANHAIYA LAL, M.A., LL.B.

REGISTRAR—J. M. DAVID, B.A.

PROCTOR—S. K. RUDRA, M.A.

LIBRARIAN—PARMANAND, M.A.

## TEACHING STAFF

### *Arabic and Persian*

Siddiqi, A., M.A., Ph.D. Prof.

Nami, Syed Mohd. Ali, M.A. Reader.

Lectrs. :

Hasan, Saeed, Ph.D.

Ahmad, Z. M. G., M.A., Ph.D.

Rahman, Md. N., M.A.

1 Junr. Lectr.

### *Botany*

Mitter, J. H., M.Sc. Panj., Ph.D. Prof. Camb.

Ranjan, S., D.Sc. Camb., M.Sc. Reader.

Saksena, R. K., D.Sc. Lectr.

Srivastava, G. D., M.Sc. Lectr.

3 Demrs.

### *Chemistry*

Dhar, N. R., M.Sc. Calc., D.Sc. Lond., I.E.S. Prof.

Chatterji, K. P., M.Sc. Reader.

Dutt, S. B., D.Sc. Lond. Reader.

Taimini, I. K., M.Sc., Ph.D. Lectr.

Ghosh, S., D.Sc. Lectr.

6 Demrs.

### *Commerce*

Ghosh, M. K., M.A., B.Com. Lond. Reader.

Chowdhury, R. C., M.Sc. Lectr.

Dubey, R. N., B.Com., D.Litt.

' Lectr.

Govil, K. L., M.A. Lectr.

### *Economics*

Rudra, S. K., M.A. Camb. Prof.

Karwal, G. D., M.A. Panj. Reader.

Lectrs. :

Adarkar, B. P., M.A. Camb.

Bhatnagar, B. G., M.A.

Dubey, Daya Shankar, M.A., LL.B.

Mehta, J. K., M.A.

Prasad, Saraswati, M.A.

Thomas, Mrs. M., M.A.

### *English*

Jha, A. N., M.A. Prof.

Pande, S. A., M.A., LL.B. Reader.

Deb, S. C., M.A. Reader.

Dustoor, P. E., M.A., D.Litt.

Reader.

Lectrs. :

Ojha, Damri, M.A., LL.B.

Sircar, K. M., M.A., M.Sc.

Misra, S. N., M.A., LL.B.

Gupta, L. D., M.A.

Mehrotra, K. K., M.A., B.Litt.

Bhandarkar, Miss V., M.A.

Simlai, Beni, M.A.

Sahai, R., M.A.

2 Jnr. Lectrs., 1 Pt.-time Teacher

*Hindi*

Varma, D., M.A., D.Litt. Reader.  
 Varma, R. K., M.A. Lectr.  
 Tripathi, Miss C., M.A. Lectr.  
 1 Junr. Lectr.

*History*

Khan, Sir S. A., M.A., Litt.D.  
 Prof.

## Readers :

Tripathi, R. P., M.A., D.Sc.  
 Prasad, Ishwari, M.A., LL.B.,  
 D.Litt.  
 Parmanand, M.A. Lectr.  
 Saxena, B. P., M.A., Ph.D. Lectr.  
 Prasad, Bisheshwar, M.A. Lectr.  
 Seth, Miss S., M.A. Lectr.

*Law*

..... Prof.  
 Bhattacharya, K. K., M.A., LL.M.  
 Lond. Reader.  
 Sastry, K. R. R., M.A., M.L.  
 Mad. Reader.  
 Pathak, K. K., B.A., LL.B. Lectr.  
 Tiwari, L. R., B.A., LL.B. Lectr.  
 3 Pt.-time Teachers.

*Mathematics*

Banerji, A. C., M.Sc. Calc., M.A.  
 Camb., I.E.S. Prof.  
 Prasad, Gorakh, D.Sc. Edin.  
 Reader.  
 Srivastava, P. L., M.A., D.Phil.  
 Reader.

## Lectrs. :

Prasad, B. N., Ph.D., D.Sc.  
 Tiwari, S. G., M.A.  
 Mohan, Piare, M.Sc.  
 1 Junr. Lectr.

*Philosophy*

Ranade, R. D., M.A. Prof.  
 Mukerji, A. C., M.A. Reader.

Mukerji, N. C., M.A. Lectr.  
 Kaul, R. N., M.A. Lectr.  
 Haldar, Miss A. L., M.A. Lectr.  
 1 Junr. Lectr.

*Physics*

Saha, M. N., D.Sc. Calc., F.R.S.  
 Prof.  
 Bhargava, S. R., M.Sc. (on leave)  
 Reader.  
 Ghosh, R. N., D.Sc. (offg.) Lectr.  
 Deodhar, G. B., M.Sc., Ph.D.  
 Lectr.  
 Majumdar, K., D.Sc. Lectr.  
 Toohniwal, G. R., D.Sc. Lectr.  
 4 Demrs.

*Political Science*

[Prof.  
 Prasad, Beni, M.A., Ph.D., D.Sc.  
 Ahmad, I., M.A. Lectr.  
 1 Junr. Lectr., 1 Pt.-time Teacher.

*Sanskrit*

Acharya, P. K., M.A. Calc., Ph.D.,  
 D.Lit. Lond., I.E.S. Prof.  
 Saksena, B. R., M.A., D.Litt.  
 Reader.  
 Misra, Umesh, M.A., D.Litt. Lectr.  
 Chatterji, K. C., M.A. Lectr.  
 Herlekar, Miss M. N., M.A. Lectr.  
 1 Junr. Lectr.

*Urdu*

Ali, Syed Zamin, M.A. Reader.  
 Syed, M. H., D.Litt. Dub., M.A.,  
 L.T., Ph.D. Lectr.  
 1 Junr. Lectr.

*Zoology*

[Prof.  
 Bhattacharya, D. R., Ph.D., D.Sc.  
 Mehra, H. R., M.Sc., Ph.D. Camb.  
 Reader.  
 Das, R. S., D.Sc. Lectr.  
 Varma, S. C., M.Sc. Lectr.  
 Datta, S. K., M.Sc. Lectr.  
 2 Demrs.

## COLLEGES OF THE UNIVERSITY

EWING CHRISTIAN COLLEGE, Allahabad (American Presbyterian Mission).  
 Principal—C. H. Rice, M.A., Ph.D., LL.D. 20 Tutors.

KAYASTHA PATHSHALA UNIVERSITY COLLEGE, Allahabad. Principal—Tara Chand, M.A., D.Phil. Ox. 7 Tutors.

AGRICULTURAL INSTITUTE, Naini, Allahabad. Principal—S. Higginbottom, Ph.D.

## GENERAL INFORMATION

Founded in 1887, the Univ. concerned itself mainly with examinations, having no teaching staff (except that of its School of Law) until 1914. Thereafter it established Chairs and Readerships, etc., for research work in Economics and Modern History for graduate students. In Jan. 1922 was passed an Act (which came into operation in July 1922) for the reorganization of the Univ. as a unitary, teaching, and residential institution, with control, however, over the quality and character of the teaching in "Associated" colleges. In 1926 was passed the Agra University Act, providing for the transfer of the control of these colleges to the Agra Univ. The Univ. now functions as a unitary, teaching, and residential Univ.

LIBRARY, 94,177 vols. A collection of coins is attached to the Library. MUSEUMS in connexion with Econ. and Com. Depts.

FACULTIES. Arts, Science, Law, and Commerce.

DEGREES, ETC. B.A., B.A. Hons., M.A., D.Phil., D.Litt.; B.Sc., B.Sc. Hons., B.Sc. (Ag.), M.Sc., D.Phil., D.Sc.; LL.B., LL.M., LL.D.; D.Litt. (Econ.); B.Com.

The *courses* of study in the Univ. for the bachelor's degree cover 2 (B.A. and B.Sc. Hons.—3) yrs., following an examn. of "Intermediate" standard, equivalent to the Higher School Examn. of the Univ. of Cambridge. The intermediate examns. of other Univs. incorporated by law in British India and the inter. examn. of the Mysore Univ., the inter. examn. of the Board of High School and Interm. Educn., Rajputana (incl. Ajmer-Merwara, Central India, and Gwalior) are recognized for the same purpose. The Intermed. Examn. in Agriculture of Nagpur Univ. has been so recognized for admission to the B.Sc. Agric. Class of this Univ. and the Prelim. Examn. of the Mayo College, Ajmer, has been recognized as equivalent to the Intermed. Examn. of the U.P. Board. Graduates in Agriculture are eligible for admission to the Law Classes.

For admission to courses leading to higher degrees the B.A. and B.Sc. degrees of any Univ. in British territory recognized by the law of the place in which it is situated and of the Allahabad and Mysore Univs. are recognized.

SCHOLARSHIPS FOR GRADUATES. *Univ. Scholps.*—21, ranging from Rs. 25 to Rs. 100 p.m. for graduates. 9 Research Scholps., of Rs. 50 each (1 yr.) in Arts and 5 in Science. *Endowed Scholps.*—4 Empress Victoria Research Scholps., Rs. 100 p.m. (3 yrs.), and 2 Kanta Prasad Research Scholps. for Hindus, Rs. 100 p.m. (2 yrs.), for M.Sc. The University has also a special fund for enabling students and staff to proceed to other countries for higher studies.

PUBLICATIONS. *Calendar*, Rs. 5; *Univ. Examns. Prospectus*, Rs. 0.8.0.; *Univ. Minutes*, Rs. 5; *University Magazine*, Rs. 2.8 p.a.; *University Studies*, Rs. 7.8; *Indian Journal of Economics*, Rs. 12 p.a.; *Annual Report*.

## THE YEAR 1936-37

BENEFACTIONS. The Rt. Hon. Sir Tej Bahadur Supru promised Rs. 900 p.a. for scholarships to deserving students. Rai Amaranath Agarwal offered

two scholarships of value of Rs. 6 each to B.Com. students. Prof. Amaranatha Jha of the English Dept. placed Rs. 500 at disposal of Vice-Chancellor for any non-recurring expenditure that he may consider desirable in interests of the Univ. Dr. J. H. Mitter, Head of Botany Dept., offered a glass house at cost of Rs. 1200, to Botany Dept. for Plant Pathology work. The Vice-Chancellor, Pandit Iqbal Narain Gurtu, placed at disposal of the Univ., Rs. 2000, for purchase of necessary apparatus and books that may be required in connexion with Experimental Psychology and Child Psychology course.

**CHANGES IN REGULATIONS.** Ordinances framed for Diploma in Indian Music. The first examination was held in April 1937.

The Examn. in English for the B.A. Pass degree divided into (a) Compulsory English, (b) English Literature. The latter is an optional subject which candidates can offer with two other optional subjects. The change will come into effect from the examn. of 1939. Ordinance regarding admission of students to M.Sc. Previous class amended to enable such candidates as have passed the B.Sc. Examn. in Agriculture to be admitted to the M.Sc. Previous class provided that they have passed an examn. in the corresponding subject in the B.Sc. Experimental Psychology and Child Psychology introduced as optional subjects for women students appearing for B.A. examn.

**EXTRA-MURAL WORK.** Many popular lectures were delivered by members of the teaching staff.

**STUDENTS.** Full-time : 2039.

**DEGREES.** B.A., 349 ; B.A.Hons., 10 ; M.A., 97 , D.Litt., 1 ; B.Com., 27 ; LL.B., 183 ; B.Sc., 93 ; B.Sc. Hons., 10 ; M.Sc., 52 ; D.Sc., 3 ; B.Sc. (Ag.), 18.

# THE ANDHRA UNIVERSITY, WALT AIR

Founded 1926

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—THE MAHARAJAH OF JEYPORE, D.Litt.

VICE-CHANCELLOR—C. R. REDDY, M.A. Camb., D.Litt., M.L.C.

REGISTRAR—C. D. S. CHETTI, M.A.

UNIVERSITY ORATORS—K. SIVARAMAKRISHNARAO, M.A., L.T.; P. LAKSHMI KANTAM, M.A.

HON. LEGAL ADVISER—L. SUBBARAO, B.A., B.L., M.L.C.

LIBRARIAN—S. PARTHASARADHI, M.A.

## TEACHING STAFF

### UNIVERSITY COLLEGE OF ARTS AND COMMERCE

*Reader-in-Charge*—M. Venkatarangaiya, M.A.

#### *Commerce*

Seshagirirao, A., M.A., A.S.A.A.  
Lond. Lectr.

Upadrasta, V. K., B.A., LL.B.,  
A.S.A.A. Lond. Lectr.

Rajan, T. P., B.Com. Edin., B.A.  
Lectr.

Datta, H. K., M.A. Lectr.

Venkatesam, E., B.A., M.L.  
Lectr.

Sarma, K. S., M.Com. Tutor.

#### *English*

Subbarao, M. V. N., M.A. Lectr.

Muthuswami, B., B.A. Lectr.

#### *French and German*

[Lectr.  
Krishnamachari, S. T., B.A. B.L.

#### *Hindi*

Venkateswarasarma, V. Visarad,  
Pracharak Pandit.

#### *History, Economics and Politics*

..... Prof.

Venkatarangaiya, M., M.A.  
Reader.

Venketrao, G., M.A., LL.B.

Lectr.

Krishna, V. S., B.A. Ox., Ph.D.  
Vienna Lectr.

Srinivasan, N., M.A., B.Sc. Lond.  
Lectr.

Sitaramasastri, Ch., M.A. Lectr.

Punnayya, K. V., M.A. Lectr.

Rao, T. S. N., M.A. Lectr.

#### *Mathematics*

Ramaswami, V., B.A., Ph.D.  
Camb. Reader.

Lakshmanamurti, M., M.A.

Lectr.

Nagabhushanam, K., M.A. Lectr.

Ratnam, P., M.A. (on leave)

Lectr.

Sambasivarao, K., M.A. Lectr.

#### *Oriya*

Madhusudan Shodangi, V. P.  
Pandit.

#### *Philosophy*

Sen, S., M.A., D.Litt., D.Phil.  
Reader.



Purushottam, T. A., M.A., Ph.D.	Somayajee, G. J., Vidwan, M.A.,
Lond.	Lectr.
Raju, P. T., M.A., Ph.D.	L.T.
Lectr.	Lectr.
Telugu	Sastri, M. S.
Lakshmikantam, P., M.A.	Lectr.
Lectr.	Sastri, V. Ch. S.
	Lectr.
	Rao, A. R. K., B.A.
	Lectr.

### JEYPORE VIKRAMA DEO COLLEGE OF SCIENCE AND TECHNOLOGY

*Reader-in-Charge*—S. Bhagavantam, M.Sc.

<i>Chemistry</i>	Rao, A. V., M.A., Ph.D.	Lectr.
Seshadri, T. R., M.A., Ph.D.	Suryapracasara, V., B.Sc.	Lectr.
Manc.	Lectr. Asst.	
Gopalara, G., D.Sc. Lond., A.I.C.	Murty, S. G. K., M.A., D.Sc.	Demr.
Lectr.	Koteeswaran, P., B.Sc.	Demr.
Raghavara, Bh. S. V., M.Sc.,		
Ph.D. Lond., A.I.C., A.I.I.Sc.	<i>Technology</i>	
Lectr.	Seshadri, T. R., M.A., Ph.D.	
Neelakantam, K., M.A. (on de-	Manc.	Reader.
putation)		
Suryapracasara, P., B.Sc.	Lectrs. :	
Murty, G. V. S. L. N., M.Sc.	Vidyarthi, N. L., M.Sc. Liv.	
Lectr. Asst.	Gangadharam, G., D.Eng. Munich,	
Rangaswami, S., B.A.	B.E., M.Sc., A.M.E., A.M.S.,	
Varadanam, Ch. I., M.Sc.	M.A.A.S.	
Subbarao, V., B.Sc.	Naidu, T. V. R., B.Sc., B.Sc.Eng.	
<i>Physics</i>	(Pt.-time)	
Raman, Sir C. V., M.A., D.Sc.,	Venkatara, C., M.Sc. (Tech.),	
LL.D., F.R.S., N.L.	(on deputation)	
Hon. Prof.	Khorana, M. L., M.Sc.	
Bhagavantam, S., M.Sc.	Venkateswarlu, J., M.Sc.	
Reader.	Dasara, C. J., B.Sc.(Ag.), M.Sc.	
Rao, K. R., M.A., D.Sc. Lond.	(Tech.)	
Reader.		
Rao, I. R., M.A., Ph.D. Cal., D.Sc.	<i>Games</i>	
Lond.		
Lectr.	Chidanandam, M., B.A., Dip. Phy.	
Nagendranath, N. S., M.Sc. (on	Edn.	
leave)		
Lectr.		
Venkatarayudu, T., M.A.		
Lectr.		

### CONSTITUENT HONOURS COLLEGES

WALTAIR, UNIVERSITY COLLEGE OF ARTS AND COMMERCE. Provides pass, Hons. and research courses in Mathematics, Philosophy, Hist., Econ., Politics, Telugu, and Commerce.

WALTAIR, JEYPORE VIKRAMA DEO COLLEGE OF SCIENCE AND TECHNOLOGY. Provides B.Sc. Hons. Courses and research courses in Physics, Chemistry and Technology, B.Sc. pass courses in Chemistry, and diploma course in the Chemistry and Microscopy of Foods, Drugs and Water.

## AFFILIATED FIRST GRADE COLLEGES

COCANADA, *Pithapur Rajah's College*. B.A., B.Sc. Principal—P. Ramaswami, M.A. 41 other teachers.

GUNTUR, *Andhra Christian College*. B.A., B.Sc. Principal—Rev. J. Roy Strock, M.A., D.D. 36 other teachers.

MASULIPATAM, *Hindu College*. B.A. Principal—K. S. Rao, M.A., L.T. 20 other teachers.

MASULIPATAM, *Union Noble College*. B.A. Principal—Rev. W. Shuttleworth, M.A. 10 other teachers.

PARLAKIMEDI, *Maharajah's College*. B.A. Principal—P. Jagannadhaswami, M.A., L.T. 14 other teachers.

RAJAHMUNDRY, *Government Arts College*. B.A., B.Sc. Principal—Rao Sahib D. S. Sarma, M.A., L.T. 21 other teachers.

VIZIANAGARAM, *Maharajah's College*. B.A., B.Sc. Principal—U. S. Bhat, M.A., L.T. 31 other teachers.

## AFFILIATED SECOND GRADE COLLEGES

## Intermediate in Arts and Science

BERHAMPUR, *Khallikote College*. Principal—P. Mahanty, M.A. 13 other teachers.

BEZWADA, *S.R.R. College*. Principal—N. S. Aiyar, M.A. 5 other teachers.

GUNTUR, *Hindu College*. Principal—B.R. Rao, M.A., L.T. 15 other teachers.

NELLORE, *Venkatagiri Rajah's College*. Principal—M. S. Raghavan, M.A. 13 other teachers.

VIZAGAPATAM, *Mrs. A. V. N. College*. Principal—M. Kamaiya, M.A., L.T. 16 other teachers.

## PROFESSIONAL COLLEGES

RAJAHMUNDRY, *Government Training College*. B.Ed. Principal—V. Apparao, M.A., L.T. 7 other teachers.

VIZAGAPATAM, *Medical College*. M.B., B.S. Principal—Major F. M. Collins, M.A., M.B., M.Ch., F.R.C.S., I.M.S. 51 other teachers.

## ORIENTAL COLLEGES

Seven Oriental Colleges, including two for women only, are recognized by the Univ. for the Oriental Title Exams. and Certificates of Proficiency in Oriental learning.

## GENERAL INFORMATION

The Act of the Madras Legislative Council constituting the Andhra Univ. "in and for the Telugu districts of the Presidency of Madras" received the assent of the Governor-General on Jan. 13, 1926, and came into force on April 26, 1926. By a later Act, the area has been narrowed down by the exclusion

of certain districts, leaving the following within the affiliating jurisdiction of the Univ.: Ganjam, Vizagapatam, East Godavari, West Godavari, Kistna, Guntur and Nellore. The Act establishes five categories of colleges: "University Colleges," providing for pass and hons. or post-graduate courses for higher degrees; "First Grade Colleges," providing courses for the ordinary degrees in Arts or Science or Commerce; "Second Grade Colleges," preparing for the Inter. Examn.; "Professional Colleges" providing courses for teaching and medical degrees and "Special Grade Colleges," providing courses for Oriental Titles.

Among the powers of the University specified in the Act are: to promote the development of the study of Telugu, Kanarese, Urdu and Oriya, and their use as media of instruction and examination; to institute professorships and other teaching posts; to maintain colleges and hostels; to erect, equip, and maintain laboratories and libraries; to institute and provide funds for the maintenance of a publication bureau, an employment bureau, students' unions, and University Extension boards. Every student of the University must reside in a hostel or under prescribed conditions.

The supreme governing body is the Senate, by which the Vice-Chancellor, a whole-time salaried officer and principal executive, is elected (for 3 years). The other principal authorities of the University are: an executive body called the Syndicate (comprising 14 members, including the Vice-Chancellor, Financial Secretary to the Local Government, and Director of Public Instruction, Madras); the Academic Council; the Faculties and the Boards of Studies.

**FACULTIES.** Arts, Science, Teaching, Medicine, Oriental Learning.

**ADMISSION** to Univ. Courses is by Matriculation examn. and Secondary School leaving certificate examn. (the latter conducted by the Madras Government), or any other examn. recognized as equivalent thereto.

**DEGREES.** B.A., B.A. Hons.; M.A., M.A. Hons.; B.Sc., B.Sc. Hons.; M.Sc., M.Sc. Hons.; B.Com., B.Com. Hons.; B.Ed., M.Ed.; Ph.D., D.Litt., D.Sc., M.B., B.S., L.M.S., M.O.L.; K.P. (Hon. Doctorate in Oriental Learning).

**DIPLOMAS.** Titles V.P. and U.P. (4 years' course); Certificates of Proficiency in Oriental Learning; Diplomas in: French, German, Librarianship, Chemistry of Foods, Drugs and Water.

The **EXAMINATIONS** of all Statutory Indian Univs. are recognized as equivalent to the corresponding examns. of the Univ.

**PUBLICATIONS.** *University Code* (Act, Statutes, Ordinances, Rules, Regns., and Syllabuses); *Annual Register* (Univ. Authorities Staff, Text Books, Endowments, Graduates and Univ., Affiliated and Recognized Colls); *Annual Report*; *Minutes*; *The Beginnings of Local Taxation*, by M. Venkatarangaiya; *The World Economic Depression—A Plea for Co-operation*, by Sir J. C. Coyajee; *India and the League of Nations*, by Sir J. C. Coyajee; *Federalism in Government*, by M. Venkatarangaiya; *The Evolution of Political Ideas and Institutions since the Great Indian Mutiny*, by C. Y. Chintamani; *Buddhist Remains in Andhra and the History of Andhra between 225 and 610 A.D.*, by K. R. Subramaniam; *Man*, by Dr. Rabindranath Tagore; *Chitraprabha—A Commentary on Haridikshita's Laghusaddaratna*, by B. Hari Sastri, edited with notes by Mahamahopadhyaya Tata Subbaraya Sastri; *Sangameswarakrodum on Jagadisa's Sidhantalakshanam*, by G. Sangameswara Sastri; *The University Lectures on Vemana*, by R. Anantakrishna Sarma; *Kavithvathavavicharamu*, by C. Ramalinga Reddy; *Andhra Mimamsa Nyaya Muktavali—A Treatise on Purva Mimamsa Darsana*, by K. Gopalakrishnamma; *History of Sanskrit Literature—Part I. Vedic Period, Part II. Lawic Period*, by M. Surjanarayana Sastri; *A Descriptive Catalogue of the Telugu Manuscripts in the*

*Tanjore Palace Library*, by P. P. S. Sastri; *Viswarupam*, by K. Kondayya; *Varyakarana Parujatamu*, by V. Ch. S. Sastri; *History of Telugu Literature*, by Dr. C. Narayana Rao.

## THE YEAR 1936-37

BENEFACTIONS. Rs. 13,825.

NEW BUILDINGS. Old Schemes completed—The Technology Building, Additional Dining Hall and Hostel Dispensary. New Schemes sanctioned—construction of new hostel building, Technology building, Faculty Club and Dining Hall.

CHANGES IN REGULATIONS. Commerce courses leading to the B.Com. Pass and Honours degrees were revised. Technology courses first started in July 1933 completely revised. The course is a post-Intermediate one of 4 yrs. with two stages, one at end of first 3 yrs. when students can go up for B.Sc. (Hons.) in Technology and the second one at end of final year when they can go up for M.Sc. Technology. The course comprises instruction in: Part I.—(a) Maths., (b) Physics, (c) Chem., (d) Descriptive Engin., including machine drawing and workshop practice. Part II.—General Chemical Technol. and any one of the following special subjects: (i.) Sugar, (ii.) Pharmaceuticals and fine chemicals, (iii.) Oils and Fats (including essential oils), (iv.) Ceramics.

*Note.*—University provision at present only for the first two subjects.

A Diploma course (1 yr.) in the Chemistry and Microscopy of Foods, Drugs, and water instituted with effect from July 1937.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. Ortway (Theoretical Physics), Univ. of Budapest, two lectures on Philosophical Aspects of Modern Physics; Dr. Andrew Krzesinski, Prof. of Philosophy at the Jagellonian Univ. of Krakow, on "Contemporary Culture and Civilization," and "Optimism and its Justification."

RESIGNATIONS. R. K. Kapur (English); D. G. Walawalkar and Dr. B. S. Srikantam (Technol.); R. P. Padhi (Physics); and Dr. S. Chowla (Maths.).

STUDENTS. Full-time: 3606, including 114 graduates.

HONORARY DEGREES. *D.Litt.*—Hon. the Rajah Sahib of Bobbili, Chief Minister to the Government of Madras and Pro-Chancellor of the Univ.; Mr. C. R. Reddy, M.L.C., Vice-Chancellor of the Univ.; H. E. Rai Bahadur Sir K. V. Reddi Nayudu, the first Indian acting Governor of the Madras Presidency; H.E. Mr. E. Raghavendra Rao, the first Indian acting Governor of the Central Provinces.

The Honorary Doctorate Degree of Kalaprapurna in the Faculty of Oriental Learning was conferred on the following four eminent scholars in the province: Mahamahopadyaya Kapisthalam Desikacharyulu, Mahamahopadyaya Tata Subbaraya Sastri, Mr. Sripada Krishnamurti Sastri, Mr. Janemanchi Seshadri Sarma.

DEGREES. B.A., 219; B.A. (Hons.), 18; M.A. (Hons.), 4; B.Com., 24; B.Ed., 97; B.Sc., 35; B.Sc. (Hons.), 25; M.Sc., 1; M.Sc. (Hons.), 6; M.B., B.S., 17; Ph.D., 1.

ORIENTAL TITLES. Vidya Praveena, 14; Ubhayabhasha Praveena, 28.

# ANNAMALAI UNIVERSITY, ANNAMALAI- NAGAR, MADRAS PRESIDENCY, SOUTH INDIA

Founded 1928

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR AND FOUNDER—RAJAH SIR S. R. M. ANNAMALAI  
CHETTIYAR OF CHETTINAD, LL.D. Madr.

VICE-CHANCELLOR—The Rt. Hon. V. S. SRINIVASA SASTRI, P.C., C.H.,  
LL.D. Madr.

REGISTRAR—N. VISVANATHA AYYAR, M.A., L.T.

LIBRARIAN—K. NAGARAJA RAO, M.A., B.L.

## TEACHING STAFF

### *Botany*

Raghavan, T. S., M.A. Madr.,  
Ph.D. Lond. (on leave) Lectr.  
Venkatasubban, K. R., M.Sc. Ben.,  
L.T. Madr. Actg. Lectr.  
Chintamani, S., B.Sc. Madr. Demr.

### *Chemistry*

Chakravarti, S. N., D.Phil. Ox.,  
M.Sc. (on leave) Prof.  
Asvathnarain, Rao K., D.Sc.  
Lond., D.I.C., F.I.C.  
Actg. Prof.

### Lectrs. :

Sitaraman, M. L., B.A. Madr.,  
M.Sc. Ben.  
Anantavaidyanathan, N., M.A.  
Madr.  
Matthew, T. B. I., M.A. Camb.  
Madhavannayar, A. P., B.A. Madr.  
Aravamudhachari, S., B.A. Demr.  
Pasupathi, V., M.Sc. Demr.

### *Economics*

Narayanasvaminayudu, B. V.,  
M.A., B.Com., Ph.D. Prof.

### Lectrs. :

Ramakrishnaayyar, V. G., M.A.  
Madr.

Zacharias, C. W. B., M.A. Madr.  
Munisvami, M. K., M.A., B.L.  
Madr.

### *English*

Sundaram, M. S., M.A. Madr.,  
B.Litt. Ox. Prof.

### Lectrs. :

Subramanyaaiyar, P. A., M.A.  
Calc. and Madr.  
Krishnamurti, S., M.A. Madr.  
Ragland, S. P., M.A. Madr.  
Subramanyan, A. C., M.A. Madr.  
Karunakaramenon, K. P., B.A.  
Madr.  
Myleru, C. R., B.A. Madr.  
Duraivsvami, M. S., M.A. Madr.  
Jagadisau, T. N., M.A. Madr.

### *History*

Srinivasachariar, Rao Saheb C. S.,  
M.A. Madr. Prof.

### Lectrs. :

Satyanathaayyar, R., M.A. Madr.  
Balakrishnannayar, T., M.A.  
Madr. and Lond.  
Bhaskaran, R., B.A. Madr.  
Govindasvami, S. K., B.A. Madr.  
Viramani, V. R., B.A. Lond.

*Malayalam*

Kochukrishnakurup, K., Vidvan,  
Madr. Junr. Pandit.

*Mathematics*

Narasingarao, A., M.A., L.T.  
Madr. Prof.

## Lectrs. :

Krishnasvamiyyangar, G. V.,  
M.A. Madr.

Sivasankaranarayanapillai, S.,  
B.A., D.Sc. Madr.

Ramamurti, B., M.A., D.Sc. Madr.

Subramanyan, S., M.A. Madr.

Lobo, C. V., M.A. Madr.

*Music*

Varadachariar, K. Lectr.

## Pandits :

Ponniappillai, K.

Subramanyaayyar, M. S.

Gomatisankaraayyar, V. S.

Narayanasvami, K. S.

*Philosophy*

[Prof.]

Ramanujachariar, R., M.A. Madr.

## Lectrs. :

Srinivasan, C. T., M.A. Madr.

Srinivasalunayudu, P., M.A. Madr.

*Physics*

Ramachandrarao, S., M.A. Madr.,  
Ph.D., D.Sc. Lond., F.Inst.P.

Prof.

## Lectrs. :

Subbarao, N. S., M.A. Madr.

Navanitakrishnan, T. P., M.A.  
Madr.

Narayanasvamiayyar, S., M.A.  
Madr.

Visvanathan, R. K., B.A. Madr.

Sriraman, S., M.Sc. Demr.

*Sanskrit*

Kuppusvamisastriar, S., M.A.,  
L.T. Madr. (Mahamahopad-  
hyaya). Hon. Prof.

## Lectrs. :

Ramasvamisastri, V. A., M.A.  
Madr. (Siromani).

Krishnamurtisarma, B. N., B.A.  
Mahahingasaastri, Y., M.A., B.L.  
Madr.

## Pandits :

Venkataramadikshitar, T. (Siro-  
mani).

Ramasubbasaastri, S.

Sivaramakrishnasastri, K. A. (Siro-  
mani).

Panchapakasaastri, P., M.O.L.  
(Siromani).

Subramanyasaastri, V. (Siromani).

Srinivasachariar, K. (Siromani).

Gurusvamisastriar, R. (Siromani).

*Tamil*

Somasundarabharatiar, S., M.A.,  
B.L. Madr. Prof.

## Lectrs. :

Kathiresancheddiyar, M.

Venkaswaminattar, M.

Sethupillai, R. P., B.A., B.L.  
Madr. (on leave).

Chidambaranathachettiyar, A.,  
B.A. (Actg.).

## Pandits :

Kandaswamiyar, R.

Bhuvarahampillai, A., Vidvan.

Palaniappapillai, T. P., Vidvan.

Amirthalingampillai, R. P., Pan-  
dita.

Arunachalampillai, M.

Ramanathan, S., B.A.

## Research Dept. :

Raghavaayyengar, R. Lectr.

## Pandits :

Varadarajaayyar, E. S., B.A.  
Madr.

Ramanathanchettiyar, L. P. K. R.  
Pandita.

*Telugu*

Appannah, T., Vidvan Pandit.

*Zoology*

[Lectr.]

Seshaiya, R. V., M.A., L.T. Madr.

Ramakrishnareddi, A., B.Sc. Madr.  
Demr.

<b>Physical Education</b>	Srinwasan, S., B.Sc.	Asst.
L. K. Govindarajulu, B.A., B.L.	Aiyaru, C.	Asst.
Madras.	Director.	

## GENERAL INFORMATION

As the result of an offer by Rajah Sir S. R. M. Annamalai Chettiar of Chettinad to transfer to a residential teaching University, if one were founded, the Sri Minakshi College for higher instruction in English, the Sri Minakshi Tamil College and the Sri Minakshi Sanskrit College which he had established and maintained, together with an endowment of 20 lakhs of rupees, the Government of Madras passed an Act in 1928 accepting the offer and providing for the establishment of the Annamalai University. Government also provided 27 lakhs of rupees towards the endowment fund, a recurring grant of one and a half lakhs a year, and subject to conditions agreed between Government and the University, a sum of seven and a half lakhs for building and equipment.

The authorities of the University under the Act are : (1) the Senate, (2) the Academic Council, (3) the Faculties, (4) the Boards of Studies, (5) the Syndicate, (6) the Finance Committee (for a period of 10 years from May 15, 1929), and (7) the Board of Selection. The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Senate, the Academic Council and the Syndicate constitute the body corporate of the University. The Vice-Chancellor is a whole-time salaried officer who holds office for 3 yrs. and is appointed by the Chancellor on the nomination of the Founder.

The Hons. Degree Exams. in every subject include *viva-voces*.

Under the Act residence in a hostel or lodgings maintained by the Univ. is compulsory on all students. The resident tutors attached to the hostel regulate attendance and exercise disciplinary control and supervision over the students. An important feature of the working of the hostel is the close association of students in the management of the affairs of each section.

Physical Training is compulsory on all students, and weekly lectures on Physiology, Health and Hygiene are delivered for their benefit.

**FACULTIES.** Arts, Science, and Oriental Studies.

**ADMISSION.** Holders of completed School Leaving Certificates under the S.S.L.C. scheme adopted by the Govts. of Madras and the Madras States declared eligible by the Syndicate are admitted to a course of Study in the Univ.

**DEGREES.** B.A., B.A. (Hons.); B.Sc., B.Sc. (Hons.); M.A., M.O.L. (Oriental Learning); M.Litt. and M.Sc. (research degrees).

**DIPLOMAS.** Titles in Oriental Learning and Music (Sangita Bushana Title) —4 yrs.' course. Pandits' Training—1 yr. course.

**RECOGNITION OF EXAMNS.** of other Univs. Examns. of all statutory Indian Univs. are recognized for purposes of admission.

**FEES.** Tuition, per term : B.A., B.A. (Hons.), B.Sc., B.Sc. (Hons.), Rs. 36-38 ; Science students, Rs. 4-6 addnl., plus deposit fee, Rs. 5. Admission, Re. 1 ; Games (Phys. Training), Rs. 2.

**BOARDS OF STUDIES.** English, Modern European Langs. (other than Engl.), Philos., Hist., Econ., Maths., Physics, Chem., Nat. Sci., Tamil, Indian Music, Sanskrit and Dravidian languages other than Tamil.

**DEANS.** Prof. B. V. Narayanasvaminayudu (Arts) ; Prof. S. Ramachandra-

rao (Science); Mahamahopadhyaya Vidayvacaspati Prof. S. Kuppusvamisastriar (Oriental Studies).

LIBRARY. 48,000 volumes.

LABORATORIES (Physics, Chemistry, Nat. Sci.) with workshops and arrangements for practical work for all students.

TUTORIAL INSTRUCTION and disciplinary supervision for all students are provided by assigning about 15 students to each member of the staff.

RESIDENCE. Students are required to live in hostels attached to the University or in approved lodgings recognized by the University. Rent from Re. 1.0-0 to Rs. 1.8-0 p.m. Separate Women Student's Hostel with a Lady Warden.

RESEARCH. Studentships tenable 2 yrs., value, Junr. Rs. 40, Senr. Rs. 60 per mensem. Fellowship tenable in India and abroad, value Rs. 125 to Rs. 150 per mensem.

PUBLICATIONS. *Calendar* (once in three years), Re. 1; *Annual Report* (April); *University Journal* (October, Jan., and April); *Students' Handbook* (July), Re. 1; *Factory Labour in India*, Rs. 3; *Bhoja Raja*, Rs. 1.8; *Naveenatarkam*, Rs. 2; *Mukundamala*, Re. 1; *Swaramelakalanidhi*, Rs. 2; *Tattva-bindhu*, Rs. 2; *Acoustics*, Rs. 1.8; *Swarasiddhantad Chandrika*, Rs. 5; *Pari Pathu*, Rs. 2; *Trimsachloki*, *Nyayakulisa*, *Sabapati Vilasa Nataka*.

## THE YEAR 1936-37

BENEFACTIONS. An Endowment of Rs. 731 : 10 : 6, interest of which is to be utilized for award of a prize to the best successful candidate in the Sangita Bhushana Title Examn.

NEW BUILDINGS. Library and Administrative Buildings; Music College and Dormitory; Union Hall; 24 Pandits' Quarters; 3 blocks Extension to Hostel.

OTHER DEVELOPMENTS. Mr. T. S. Raghavan, Lecturer in Botany and recipient of a fellowship in Gt. Britain, was awarded the Doctorate degree at the Univ. of London. His fellowship has been extended to undertake further research work in Germany. The Univ. Library was moved to its New Buildings.

NEW POSTS. Professorship in Botany; Demonstratorships in Physics, Botany and Zoology; Fellowship in Sanskrit.

CHANGES IN REGULATIONS. Institution of a Ph.D. degree. A Postgraduate course in Tamil and Sanskrit with English as Part I. under consideration. Alteration in regns. governing award of B.A. (Hons.) degree in English Language and Literature.

RETIREMENTS. S. Dandapanisvamidikshitar (Sanskrit); S. Ramasvami-pulavar (Tamil); T. S. Sabhesaayyar (Music).

RESIGNATION. P. Srinivasaayyar (Music).

STUDENTS. Full-time : 798, including 27 graduates.

DEGREES. B.A., 13; B.A. (Hons.), 23; M.A., 11; B.Sc., 16; B.Sc. (Hons.), 12.



# BENARES HINDU UNIVERSITY, BENARES, U.P.

Founded 1916

LORD RECTOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

VISITOR—H.E. THE GOVERNOR OF THE UNITED PROVINCES.

CHANCELLOR—H.H. THE MAHARAJAH OF BIKANIR.

PRO-CHANCELLORS—H.H. THE MAHARAJAH OF BENARES, and H.H. THE MAHARAJAH OF JODHPUR.

VICE-CHANCELLOR—PANDIT MADAN MOHAN MALAVIYA, B.A., LL.B.

PRO-VICE-CHANCELLOR AND SECRETARY OF THE COURT AND THE COUNCIL—RAJA JWALA PRASAD, B.A., C.E., M.I.E. (India).

TREASURER—RAI GOVIND CHAND, M.A., M.L.C.

REGISTRAR—PANDIT G. P. MEHTA, M.A.

ASST. REGISTRAR—PANDIT K. D. TEWARI, M.A., LL.B.

## COLLEGES MAINTAINED BY THE UNIVERSITY

CENTRAL HINDU COLLEGE. Principal (Univ. Prof. of Econ.)—Rao Bahadur K. V. Rangaswamyaiyangar, M.A. Madr. Vice-Principal—S. C. De, M.A. Calc.

Honorary Univ. Profs. : *Econ.*—V. G. Kale, M.A. Bom. *History, Indian.*—D. R. Bhandarkar; *Maths.*—G. S. Mahajani, B.A., Ph.D. Camb. *Philos.*—B. Keightley, M.A.; \*Sir S. Radhakrishnan, M.A., D.Litt. Calc. *Sanskrit.*—A. B. Dhruva, S. K. Belvalkar, Ph.D. Harv.

Others : *Econ.*—R. B. K. V. Rangaswamyaiyangar, M.A. Madr.; K. P. Sipahmalani, M.A. Bom.; P. Nath, D.Sc. Lond., Ph.D. Vienna; H. R. Soni, M.Sc. Edin., D.Sc. Lond. *English*—U. C. Nag, M.A. Calc., Ph.D. Lond., Hd. of Dept.; J. S. Yajnik, M.A., LL.B. All.; C. N. Menon, M.A., Ph.D.; S. N. Lal, M.A., LL.B. All.; M. M. Desai, M.A. Bom.; B. L. Sahni, M.A.; G. D. Sastri, M.A., LL.B.; M. Pd. Sinha, M.A.; R. L. Merh, M.A.; R. A. Dwivedi, M.A.; S. K. Singh, M.A.; G. S. Chuneekar, M.A.; N. M. Kulkarni, M.A. *Hist.*—S. V. Puntambekar, M.A. Ox., Hd. of Dept.; S. N. Bhattacharya, M.A. Calc.; K. Bhattacharya, M.A. All.; P. Saran, M.A., Ph.D. Lond.; D. C. Ganguly, M.A., Ph.D. Lond. *Hist. and Culture, Ancient Indian*—A. S. Altekar, M.A., LL.B. Bom., D.Litt., Hd. of Dept.; R. S. Tripathi, M.A. Luck., Ph.D. Lond.; R. B. Pande, M.A., D.Litt. *Indian Langs. : Arabic and Persian*—M. Prasad, Maulvi Fazil, Panj.; S. A. Hasan, M.A. Patna. *Bengali*—B. Bhattacharyya, M.A. *Hindi*—R. C. Shukla, Hd. of Dept.; A. S. Upadhyaya; K. P. Misra, M.A.; P. D. Barthwal, M.A., D.Lit.; J. P. Sharma, M.A.; V. Mishra, M.A. *Marathi*—B. G. Khaparde. *Sanskrit*—S. K. Belvelkar, M.A. Bom., Ph.D. Harvard, Hd. of Dept.; B. N. Sarma, M.A.; B. Upadhyaya M.A.; S. L. Joshi, M.A. *Urdu*—M. M. Prasad; S. A. Hasan, M.A., M.F. *Maths.*—V. V. Narlikar, B.A. Camb., B.Sc. Bom., Hd. of Dept.; B. M. Mehrotra, Ph.D. Liv.; S. C. D. Gupta, M.A. Calc.; J. Kishore, M.A.;

\* Appointed Spalding Professor at Oxford from 1903-36.

S. Sastry, M.A.; B. L. Tripathi, M.A.; P. Nath, M.A. *Mod. European Langs.*—P. N. Roy, M.A. Calc., D.Lit. Rome. *Philos.*—S. K. Maitra, M.A., Ph.D. Calc., Hd. of Dept.; B. L. Atreya, M.A., D.Litt.; S. N. L. Dar, M.A.; T. V. N. Murti, M.A. *Polit. Sci.*—G. N. Singh, M.Sc. (Econ.) Lond., Hd. of Dept.; M. B. Lal, M.A.; K. L. Varma, M.A. Instrs. in Religion: S. K. Joshi, B.A., LL.B.; A. Jaitly. Instrs. in Athletics: N. Lal; G. S. Patwardhan.

COLLEGE OF SCIENCE. Principal—P. K. Dutt, M.A. Camb. *Bot.*—Hd. of Dept., Y. Bharadwaj, M.Sc., Panj. Ph.D. Lond., F.L.S. Asst. Profs.: N. K. Tiwary, M.Sc. All.; K. R. Mehta, M.Sc. Panj.; A. C. Joshi, M.Sc.; R. D. Mishra, M.Sc., Ph.D. Leeds; 3 Demrs. *Chem.*—Hd. of Dept., S. S. Joshi, D.Sc. Lond., M.Sc. Profs.: M. B. Rane, M.A. Bom.; S. K. Basu, M.Sc. All., Ph.D. Berlin; P. S. Varma, M.Sc. Calc. Asst. Profs.: D. N. Banerjee, M.Sc.; P. N. Roy, M.Sc.; 12 Demrs. *Chem., Industrial*—Hd. of Dept., N. N. Godbole, M.A., B.Sc. Bom., Ph.D. Berlin. Asst. Profs.: K. C. Trigunait, M.Sc.; D. Singh, F.S.O.; A. N. Ghosh; H. N. Bose, M.Sc. Calc.; K. D. Gupta, L.M.E.; 3 Demrs. *Chem., Pharmaceutical*—Hd. of Dept., M. L. Shroff, A.B. Cornell, M.Sc. Mass. Inst. Tech. Asst. Profs.: N. K. Basu, M.Sc.; D. N. Mazumdar, M.Sc. *Geol.*—Hd. of Dept., Rajnath, Ph.D. Lond.; Profs.: V. S. Dube, M.Sc., Ph.D. Lond., D.I.C.; K. P. Rode, M.Sc.; 1 Demr. *Glass Technology*—V. S. Dube, M.Sc., Ph.D. Lond., D.I.C., Hd. of Dept.; R. Charan, B.Sc. Tech., Sheffield; Y. Vershney, M.Sc. All. *Physics*—Hd. of Dept., P. K. Dutt, M.A. Camb. Profs.: B. Dasannacharya, M.A. Madr., Ph.D. Munich; C. M. Sogani, D.Sc. Asst. Profs.: U. A. Asrani, M.Sc.; P. C. Ghosh, M.Sc.; 7 Demrs. *Zool.*—Hd. of Dept., A. B. Misra, D.Sc., D.Phil. Ox. Asst. Profs.: C. Bal, M.Sc.; K. N. Gupta, M.Sc.; R. C. Saksena, M.Sc.; 2 Demrs.

COLLEGES OF ORIENTAL LEARNING AND THEOLOGY. Principals: O.L.—Maha. Pt. P. N. Tarkabhushan; Theol.—Pandit Vidyadhar Gour. 30 other Profs.

TEACHERS' TRAINING COLLEGE. Principal, H. B. Malkani, M.A. Bom., C.T. 7 Assts.

ENGINEERING COLLEGE. Principal—H. P. Philpot, B.Sc. Lond. Profs. and Lectrs.: B. C. Chatterji, B.A., B.Sc., B.L., M.I.E.E.; R. S. Jain, B.Sc. Illinois; G. C. Mukherjee, M.Sc.; A. David, B.Sc. Lond.; M. Pande, B.Sc., and 15 others. Arrangements have been made for holding, at the College, examns. of the City and Guilds of London Institute.

Department of Mining and Metallurgy. Head of Dept. and Univ. Prof. of Mining and Metallurgy—N. P. Gandhi, M.A., B.Sc., A.R.S.M., D.I.C. (on leave); D. Swarup, Ph.D., offg., and 6 others.

INSTITUTE OF AGRICULTURAL RESEARCH. Head—B. N. Singh, D.Sc.; A. Lal, M.Sc., Ph.D. Lond.; K. Kumar, M.Sc.; K. N. Lal, D.Sc.; B. N. Lal, M.Sc.; G. P. Kapoor, M.Sc.; R. S. Chaudhury, M.Sc.

LAW COLLEGE. Hon. Profs.: Sir Tej Bahadur Sapru, K.C.S.I., M.A., LL.D. (Dean); K. N. Katju, M.A., LL.D.; A. P. Dube, M.A., B.C.L.; A. N. Sanyal, M.A., LL.B. Lond.; Wali Ullah, M.A., B.C.L., LL.D.; K. Narain Malaviya, M.A., LL.B., S.J.D. Harv.; Tek Chand, M.A., B.C.L. Others: L. R. Siva Subramaniam, B.A., M.L. Madr.; Pandit B. N. Vyas, M.A., LL.B. All.; G. B. Joshi, M.A. All., LL.M. Bom.

THE WOMEN'S COLLEGE. Principal, and Lectr., Mrs. K. Venkateshwaram, M.A. Lectrs.: Mrs. S. Mazumdar, M.A.; Miss K. Kolhatkar, M.A.; Miss Y. R. Manurkar, M.A.; Mrs. Jamuna Devi; Mrs. B. Janaki, M.B., B.S. Miss R. Leela, M.A.; Mrs. Sri Devi, M.A.

## GENERAL INFORMATION

The University was founded in 1916. For early history, see *Yearbook* for 1930.

The Univ.'s assets, including perpetual grants by the Govt. of India and by Ruling Chiefs of Rs. 3,00,000 and 75,000 respectively, are valued at Rs. 3,00,00,000.

Every member of the *Court*, the supreme governing body, must be a Hindu. It includes representatives of benefactors, graduates, the Senate, the Jain and Sikh communities, Hindu religion and Sanskrit learning, the learned professions. Of the *Senate*, the academic body, at least three-fourths must be Hindus; it includes (1) the Chancellor, Pro-Chancellor, Vice-Chancellor, Pro-Vice-Chancellor, Univ. Profs., and Principals or Heads of Colleges as *ex-officio* members; (2) 5 members nominated by the Visitor; (3) elected members, including representatives of the Court, of Hindu religion and Sanskrit learning, and graduates. The *Council* and *Syndicate* are the executive bodies of the Court and Senate respectively.

**LIBRARY**, 96,000 vols. **LABORATORIES**: Chem., Physics, Zool., Bot., Agricultural Bot., Geol., Ceramics, Glass Technol., Mining and Metallurgy. The Engineering College laboratories include a shop equipped for manufacturing machines, smith and paint shops, an iron and brass foundry and a motor-car repair shop; a power-house is also attached to the College.

**ADMISSION**. The Univ. is, subject to regns., open to persons of all classes, creeds, and castes, but provision is made for religious instruction (which is compulsory for Hindu students) and examination in the Hindu religion only. Women are eligible for admission to the Univ. and examns., degrees, etc.

**FACULTIES**. Oriental Learning, Theology, Arts, Science, Technology, Law, and Indian Med. and Surgery (Ayurveda).

**DEGREES**. B.A., M.A., D.Litt., B.Sc., B.Sc. (Ind. Chem.), B.Sc. (Glass Tech.), B.Sc. in Appl. Sc. (Engin.), B.Sc. (Mining), B.Sc. (Metallurgy), M.Sc., D.Sc., B.Pharm., Shastri, Shastracharya, Ayurvedacharya, Smritiratna, Smritisagara, Dharmashastri, Dharmacharya, LL.B., LL.M., LL.D., B.T. The admission qualification for Degree course (4 yrs.) in Mining or in Metallurgy is Interm. Sc. examn. of an Indian Univ. or Board of Interm. Education, with Physics, Chem., and Maths.

**RESIDENCE**. Students are required to live in a Univ. or College Hostel, or, subject to the approval of the Pro-Vice-Chancellor, with parents or guardians. There are 8 hostels accommodating 2000 students and 100 residences for members of the staff.

**SCHOLARSHIPS**. 20 for Arts and Science students of merit, 20 for Teachers' Training College. Numerous other College Scholarships.

**PUBLICATIONS**. *Calendar* (occasionally); *Magazine* (quarterly).

## THE YEAR 1936-37

**BENEFACTIONS**. Rs. 75,000.

**OTHER DEVELOPMENTS**. Degree Courses in Glass Technology and Pharmacy instituted.

**RETIREMENTS**. Rao Bahadur L. S. Jha, Principal, T.T. College; Rao Bahadur S. S. Das, Head of Dept. of Hindi.

**STUDENTS**. Full-time: 3385, including 504 graduates.

**DEGREES**. B.A., 197; M.A., 59; B.T., 70; B.Sc., 164; M.Sc., 41; B.Sc. (Engin.), 125; B.Sc. (Mining), 1; B.Sc. (Metall.), 16; LL.B. (Final), 85; D.Litt., 1; D.Sc., 1; Shastri, 41; Shastracharya, 16; Ayurvedacharyya, 19.

# UNIVERSITY OF BOMBAY

Founded 1857

Return of changes in Affiliated Institutions received too late  
for inclusion

CHANCELLOR—H.E. THE GOVERNOR OF BOMBAY.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—V. N. CHANDAVARKAR, B.A. Camb.

REGISTRAR—S. R. DONGERKERY, B.A., LL.B.

UNIVERSITY SCHOOL OF ECONOMICS AND SOCIOLOGY

Prof. of Economics—C. N. Vakil, M.A., M.Sc. Lond.

Prof. in Sociology—G. S. Ghurye, M.A., Ph.D. Camb.

Reader in Sociology—N. A. Toothi, D.Phil. Ox., B.A.

Reader in Economics—Dwarkanath Ghosh, M.A.

WILSON PHILOLOGICAL LECTURER for 1936-37, I. J. S. Tarapovewalla, B.A., Ph.D.

UNIVERSITY DEPARTMENT OF CHEMICAL TECHNOLOGY

Prof. of Chemical Technol. and Hd. of Dept.—R. B. Forster, D.Sc. N.U.I., Ph.D. Berlin, A.R.C.Sc.I., F.I.C.

*Chemical Engineering* : Reader—Damle, N. R., Ph.D. Lond., M.Sc., A.I.I.Sc. Demr.—Kane, J. G., M.Sc., A.I.I.Sc.

*Chemistry, Industrial and Tinctorial* : Lectr.—Mehta, T. N., Ph.D. Lond., B.A., B.Sc., D.I.C., A.I.C. Demr.—Thosar, V. B., B.A., M.Sc.

*Dyeing and Printing* : Reader—Venkataraman, K., M.A. Madr., M.Sc.Tech., Ph.D., D.Sc. Manc., F.I.C. Lectr.—Jambuserwala, G. B., M.Sc.Tech. Manc., B.Sc. (Experimental D.).

*Fuel Technology* : Mandlekar, M. R., Ph.D. Lond., D.I.C.

*Mech. Engineering and Drawing* : Demr.—Sathe, P. K., B.E.(Mech.).

*Optics* : Research Asst.—Vaidya, B. K., M.Sc., Ph.D. Liv.

8 Part-time Lectrs. in : Colloids, German, Indust. Admin., Indust. Relations, Maths., Textile Design, Yarn and Cloth. 4 Works Staff.

## AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

AHMEDABAD, *Gujarat College* (Govt.). Recognized in courses for B.A., M.A., B.Sc. Principal—G. F. Shirras, M.A. Aberd., F.S.S. Profs. : *Botany*—S. L. Ajrekar, B.A. *Chem.*—..... *English*—S. S. Bhandarkar, B.A.; R. N. Welingkar, B.A. Ox. *French*—S. P. Taraporewala, M.A., LL.B. *Gujarati*—A. M. Raval, M.A. *Hist.*—M. S. Commissariat, M.A.; S. G. Deshpande, M.A. *Maths.*—S. M. Shah, M.A. *Persian*—M. E. Namazi, B.A. *Physics*—V. B. Divatia, B.A. Camb., M.A. *Sansk.*—K. V. Abhyankar, M.A. 16 other Asst. Lectrs.

AHMEDABAD, *Law College*. Under control of the Gujarat Law Society. Principal—P. J. Shroff, B.A., LL.B. 7 other Profs.

BARODA, *College* (State). In courses for M.A., M.Sc., B.A., B.Sc. Principal—S. G. Burrow, B.Sc. Lond., A.R.C.S. Profs. : *Biol.*—S. V. Shevde, B.Sc.

*Chem.*—K. G. Naik, M.A., D.Sc., D.I.C. Lond.; M. D. Awasare, B.A., M.Sc. *Engl.*—Prof. P. C. Romans, M.A. Camb.; V. S. Tilak, B.A. Camb.; G. F. Williams, B.A. Camb.; S. M. Wadia, M.A. *Hist. and Pol. Econ.*—J. M. Mehta, M.A. Ox.; K. H. Kamdar, M.A. *Logic and Mor. Philos.*—A. K. Trivedi, M.A., LL.B.; M. A. Buch, M.A. *Maths.*—Gajanan G. Pendse, M.A.; B. Sengupta, M.A. Calc., B.L.; K. M. Shah, M.Sc. *Pers.*—M. A. Kazi, M.A. *Phys.*—S. G. Burrow, B.Sc. Lond.; N. K. Apte, M.A., B.Sc. *Sansk.*—B. C. Lele, M.A., Ph.D. 17 other Lectrs., etc.

BELGAUM, *K. L. E. Society's Arts College*. Principal—Dr. S. C. Nandimath, Ph.D. 8 other Profs.

BHAVNAGAR, *Samaldas College (State)*. In B.A. courses. Principal, and Prof. of *Engl. and Hist.*—T. K. Shahani, M.A. 20 other Profs. and Lectrs.

BOMBAY, *Cama and Allbless Hospitals*. In Midwifery courses for the M.D.

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Other Profs.: *Chem.*—J. F. Caius, and 4 others. *Engl. Lit.*—J. Fell, and 2 others. *French Lit.*—Rev. J. Dühr, S.J., and another. *Geology*—A. S. Kalapesi, B.A., B.Sc. *Hebrew*—E. M. Ezekiel, B.A., LL.B. *Hist.*—H. Heras, A. C. Fernandez, M.A., G. M. Moraes. *Latin*—A. L. Menezes, M.A. *Maths.*—H. Rafael and another. *Persian and Arabic*—Syed M. S. Reza. *Philos.*—M. Sola, M.A., Ph.D. *Physics*—R. Rafael, S.J. *Sansk.*—K. M. Shembavnekar, M.A. *Zool.*—J. P. Mullan, M.A. 34 other Teachers.

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POONA, *Sir Parashurambhau College*. In Arts; in Science for B.Sc. Under control of Shikshana Prasarak Mandali. Principal, and Professor of *Engl. and Sansk.*—R. D. Karmarkar, M.A. Other Profs.: *Chem.*—V. K. Bhagwat, M.Sc., Ph.D. *Engl.*—B. D. Sattigisi, M.A., LL.B. *Maths.*—M. R. Paranjpe, M.A., B.Sc. *Philos.*—N. G. Naralkar, M.A., L.T.; S. V. Dandekar, M.A. *Marathi*—S. M. Mate, M.A. 26 other Teachers.

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SURAT, *M.T.B. College*. In Arts. Under control of Sarvajanic Educn. Soc., Surat. Principal, and Prof. of *Maths.*—N. M. Shah, M.A. Camb. 28 other Profs.

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## THE YEAR 1936-37

STUDENTS. Full-time: 18,344.

DEGREES. B.A., 1198; M.A., 110; LL.B., 371; LL.M., 2; B.Com., 62; M.Com., 2; B.T., 106; B.Sc., 358; B.Sc. (Tech.), 13; M.Sc., 56; D.Sc., 1; B.Ag., 31; B.E. (Civil), 56; B.E. (Mech.), 3; B.E. (Elec.), 9; M.B., B.S., 120; M.D., 1; M.S., 1; B.Hy., 2; Ph.D., 1.

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VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—SYAMAPRASAD MOOKERJEE, M.A., B.L., M.L.A.

PRESIDENT, POST-GRADUATE COUNCIL—SYAMAPRASAD MOOKERJEE, M.A., B.L., M.L.C. (Arts); Sir NILRATAN SIRCAR, M.A., M.D., LL.D., D.C.L. (Science).

REGISTRAR—J. C. CHAKRAVORTI, M.A.

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INSPECTOR OF COLLEGES—SASTISCHANDRA GHOSH, M.A.

SECRETARY TO THE COUNCILS FOR POST-GRADUATE STUDIES IN ARTS AND SCIENCE—S. N. MITRA, M.A.

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..... G. P. Singh Prof.	Mookerjee, H. C., M.A., Ph.D.	
<i>Art : Indian Fine Arts</i>	<i>History and Culture, Ancient Indian</i>	
Suhrawardy, S., B.A. Ox.	Raychaudhuri, H. C., M.A., Ph.D.	
Bageswari Prof.	Carmichael Prof.	
<i>Bio-Chemistry</i>	<i>History, Mediæval and Modern Indian</i>	
Brahmachari, Sir U. N., M.A., M.D., Ph.D., F.R.A.S.B., F.N.I.	Sen, S. N., B.Litt. Ox., M.A., Ph.D.	Asutosh Prof.
Hon. Prof.		
<i>Botany</i>	<i>Hygiene and Public Health</i>	
Agharkar, S. P., M.A., Ph.D.	Suhrawardy, Sir Hassan, O.B.E., LL.D. Lond., M.D., F.R.C.S.I., D.P.H. Dub., D.Sc. Hon. Prof.	
Berlin Sir R. B. Ghose Prof.		
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Mitter, P. C., M.A., Ph.D. Berl.	Mitra, Rai Bahadur K. N., M.A.	
Sir T. N. Palit Prof.	R. Lahiri Prof.	
..... Sir R. B. Ghose Prof.		
Guha, Bireschandra, D.Sc. Lond. (Applied C.)	<i>Islamic Studies</i> [Asutosh Prof.]	
Sir R. B. Ghose Prof.	Siddique, Md. Z., M.A., Ph.D.	
Mookerjee, J. N., D.Sc. Lond.	<i>Mathematics</i>	
G. P. Singh Prof.	Levi, F., Dr. Phil. Nat.	
	Hardinge Prof.	
<i>Economics</i> [Minto Prof.]	Sen, N., D.Sc. (Applied M.)	
Niyogi, J. P., M.A., Ph.D.	Sir R. B. Ghose Prof.	

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Radhakrishnan, Sir S., M.A., D.Litt George V. Prof.	Ray, B. B., D.Sc. G. P. Singh Prof
Banerjea, J. R., M.A., B.L. Prof.	<i>Physiology</i> [Prof.
<i>Pali</i> [Prof.	Mahalanobis, S. C., B.Sc., F.R.S.E.
Barua, B. M., M.A., D.Lit. Lond.	<i>Sanskrit</i>
<i>Phonetics and Indian Linguistics</i>	Sastri, Mahamahopadhyaya Vid- husekhara Asutosh Prof.
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Bose, D. M., Ph.D. Berlin, M.A., B.Sc. Palit Prof.	<b>Tagore Professor of Law</b>
Mitra, S. K., D.Sc.	1937, Sir William Holdsworth, K.C., LL.D., D.C.L.
Sir R. B. Ghose Prof.	Subject—Some Makers of Eng- lish Law.
Ghosh, P., Sc.D. Padua, M.A., Ph.D., F.Inst.P. (Applied P.) Sir R. B. Ghose Prof.	

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BHOWANIPUR (CALCUTTA), *Asutosh College*. B.A. and B.Sc. Principal—Panchanan Sinha, M.A. 58 other Teachers.

BURDWAN, *Raj College*. B.A. Principal—C. C. Mitra, M.A., B.L. 18 other Teachers.

CALCUTTA, *All India Institute of Hygiene and Public Health* (Govt.). D.P.H. and D.Sc. in Public Health. Director (Offg.) and Prof. of Vital Statistics and Epidemiol.—R. B. Lal, M.B., B.S., D.P.H., D.T.M. & H., D.B. Profs.: *Bio-Chem. and Nutrition*—H. Ellie C. Wilson, D.Sc., M.D. *Entomol.*—C. Strickland, M.A., M.D., B.Chir. Camb. *Malariology and Rural Hyg.*—K. V. Krishnan, D.Sc., M.B., B.S., D.B., M.R.C.P. *Maternity and Child Welfare*—M. I. Neal Edwards, M.D., I.M.S. *Pathol., Bacteriol. and Helminthol.*—Capt. C. L. Pasricha, M.A., M.B., B.Chir. Camb., M.R.C.S., L.R.C.P., I.M.S. *Phys. and Chem.*—S. Ghosh, D.Sc. Edin., F.C.S. Lond., M.Sc. *Protozool.*—..... *Public Health Lab. Practice*—A. Sen, B.Sc., M.B., Ch.B., M.R.C.P. Edin., D.P.H. *Serology*—Major S. D. S. Greval, B.Sc., M.D., Ch.B., I.M.S. 11 Asst. Profs.

CALCUTTA, *Bangabasi College*. B.A. and B.Sc. Principal—P. K. Bose, B.A. Ox., B.L. 51 Teachers.

CALCUTTA (SIKPUR), *Bengal Engineering College* (Govt.). B.E. Principal—R. Wolfenden, M.B.E., M.Sc., M.I.Mech.E., M.I.E. Ind. Profs.: *Chem.*—N. N. Sen, M.Sc., A.I.C., A.R.S.M. Lond. *Eng. Civil*—C. V. Miller, B.Sc., A.C.G.I. Eng., *Elect.*—M. Sengupta, B.Sc. Calc. and Glas. *Eng., Mech.*—..... *Maths.*—J. M. Bose, M.A., B.Sc. Edin. *Physics*—A. C. Chakrabarti, M.A., M.Sc. Camb. 30 other Teachers.

CALCUTTA, *Bethune College* (Girls) (Govt.). B.A. Principal—Mrs. Tatini Das, M.A. 17 Teachers.

CALCUTTA, *City College*. B.A. and B.Sc. Principal—R. K. Guha, M.A. 52 other Teachers.

CALCUTTA, *David Hare Training College* (Govt.). B.T. Principal—A. K. Chanda, M.A. Ox. Profs.: C. Dasgupta, B.A., B.T.; A. R. Akhunji, M.Ed. Leeds; S. Chakrabarti, M.Sc., B.T. 1 other Teacher.

CALCUTTA, *Islamia College*. B.A. Principal—M. Qudrat-i-Khuda, D.Sc. Lond., D.I.C. 27 other Teachers.

CALCUTTA, *La Martiniere*. Interm. Principal—R. J. Fearn, B.Sc. Lond. 7 other Teachers.

CALCUTTA, *Loreto House* (Girls). B.A. Principal—Provincial of the Loreto nuns in India. 11 other Teachers.

CALCUTTA, *Medical College of Bengal*. M.B. Principal—Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., F.I.C., D.P.H., I.M.S. Profs.: *Anat.*—Rai Bahadur S. Singha, M.B., F.R.C.S.E. *Biol.*—S. Mukherjee, L.M.S. (Offg.). *Chem.*—..... *Hygiene*—Major A. C. Chatterji, M.B., D.P.H., I.M.S. *Med. Jurispr.*—Major D. Ahmad, O.B.E., L.M.S., A.I.R.O. *Med.*—Lt.-Col. E. H. V. Hodge, M.D., M.R.C.P. Lond., I.M.S. *Med., Clin.*—

U. P. Basu, M.B., F.R.C.P.I. (Offg.). *Midwifery and Obstet., Clin. and Operative*—Lt.-Col. P. F. Gow, D.S.O., M.A., M.B., F.R.C.S.E., D.P.H., F.C.O.G., I.M.S.; M. N. Sarkar, B.A., M.B., F.R.C.S.E. *Ophthalmic Surg.*—Lt.-Col. E. W. O'Kirwan, M.Sc., M.B., F.R.C.S.I., I.M.S. (on leave); S. K. Mukherji, D.O., D.O.M.S., F.R.C.S. (Offg.). *Pathol.*—M. N. De, M.D., M.R.C.P. *Pharmacol.*—Lt.-Col. R. N. Chopra, C.I.E., M.A., M.D., I.M.S. *Physics*—T. D. Kar, M.A. *Physiol.*—Capt. P. De, B.Sc., M.B., M.R.C.P.E. *Surg.*—Lt.-Col. F. J. Anderson, M.C., M.B., B.S. Lond., F.R.C.S., L.R.C.P., I.M.S. *Surg., Clin. and Operative*—D. C. Chakravarti, F.R.C.S.E. 17 other Teachers.

CALCUTTA, *Presidency College* (Govt.). B.A. and B.Sc. No. of undergraduates limited to 960. Principal—B. M. Sen, M.A. Camb., M.Sc. *Arabic, Persian, and Urdu*—Profs.: M. Sanaullah, M.A.; M. Ahmed, M.A. Lectrs.: M. M. Huq, M.A.; T. Rezwi, M.A.; A. Khaleq, M.A. *Botany*—Profs.: S. Banerjee, M.A., B.Sc., F.L.S.; G. Majumdar, M.Sc., B.L.; J. Sengupta, D.Sc. Heidelb., M.Sc.; 1 Demr., 1 Asst. *Chem.*—Profs.: P. Niyogi, M.A., Ph.D.; M. Kudrati Khuda, D.Sc. Lond., M.Sc., D.I.C.; 7 Demrs., 4 Assts. *English*—Profs.: P. Ghosh, M.A.; A. H. House, M.A. Ox.; H. Banerjee, M.A. Ox. and Calc., B.Litt. Ox.; S. Maitra, M.A.; S. Sengupta, M.A., Ph.D.; T. Mukherjee, M.A.; T. Sen. *Geol. and Geog.*—Profs.: J. A. Dunn; M. Chatterjee, Ph.D. Lond., B.Sc.; 1 Demr., 1 Asst. *Hist. and Geog.*—Profs.: D. Sen, M.A.; U. Goshal, M.A., Ph.D.; S. Sarkar, M.A. Calc. and Ox.; S. Majumdar, M.A., B.L. *Maths. and Astron.*—Profs.: N. Ghosh, M.A.; J. Ghosh, Ph.D. Edin., M.A.; K. Chakravarti, M.Sc. Lectrs.: B. Das, M.Sc.; G. Bhar, M.Sc.; 1 Asst. *Philos. and Logic*—Profs.: P. D. Shastri, M.A., M.O.L. Panj., B.Sc. Ox., Ph.D. Kiel.; N. Brahma, M.A., Ph.D.; M. Sarkar, M.A., Ph.D. *Physics*—Profs.: P. Mahalanobis, M.A. Camb., B.Sc.; S. Datta, D.Sc. Lond., M.Sc., D.I.C.; D. Majumdar, M.A., B.L. Lectr.: K. Kar, D.Sc.; 5 Demrs., 2 Assts. *Physiol.*—Profs.: N. Bhattacharyya, M.A., B.Sc.; N. Basu, M.Sc.; 2 Demrs., 1 Asst. *Polit. Econ. and Polit. Philos.*—Profs.: J. Sinha, M.A., Ph.D.; D. Chatteraj, M.A.; U. N. Ghoshal, B.Sc. Lond. *Sanskrit, Pali, Bengali and Hindi*—Profs.: R. Basak, Ph.D. Dac., M.A.; S. Bhaduri, M.A. (Offg.). Lectrs.: S. Bhattacharyya, M.A., B.T.; S. S. Bagchi, M.A.; S. Lala (pt.-time in Hindi). *Physical Instr.*—S. Sen, M.A., B.L. (on leave); A. Mitra, B.A. (Offg.).

CALCUTTA, *Ripon College*. B.A., B.Sc., B.L.

*Arts and Science Dept.* Principal—R. Ghosh, M.A. 63 other Teachers.

*Law Dept.* Principal—S. C. Chaudhuri, M.A., LL.D. Camb. 10 other Teachers.

CALCUTTA, *St. Joseph's College*. Interm. Principal—Rev. Br. D. M. Lonergan. 5 other Teachers.

CALCUTTA, *St. Paul's Cathedral Mission College*. B.A. Principal—Rev. P. G. Bridge, D.D. 22 other Teachers.

CALCUTTA, *St. Xavier's College* (S.J.). B.A., B.Sc., B.T. Students of other religious persuasions are admitted. Rector—A. Verstraeten, S.J. 46 other Teachers.

CALCUTTA, *Sanskrit College*. B.A. Principal—S. N. Dasgupta, Ph.D. Camb., M.A. 15 other Teachers.

CALCUTTA, *Scottish Church College*. B.A., B.Sc. and B.T. Formerly the General Assembly's Institn. and Duff Coll. Principal—Rev. A. Cameron, M.A., B.D. Profs.: *Bengali and Hindi*—S. Dasgupta, M.A.; S. Lala (Hindi).

*Chem.*—R. Chatterjee, M.Sc. ; W. C. Somerville, B.Sc., Ph.D. Edin. *English*—The Principal ; A. Mowat, M.A. ; S. C. Dutt, M.A., B.L. ; B. B. Roy, M.A. ; M. D. Gray, M.A. ; W. Sutherland, M.A. ; M. Bose, M.A. ; Anne W. Logan, M.A. ; Dorothy J. Stewart, M.A. *History*—M. Sarkar, M.A. ; A. Sen, M.A. ; Rev. M. A. Simpson, M.A. *Maths.*—M. Sarkar, M.A. ; B. Mandal, M.Sc. ; N. Karfarma, M.A. ; B. Mukherjee, M.A. *Philos. and Logic*—S. Biswas, M.A. ; J. K. S. Reid, M.A. *Physics*—N. Ray, M.A. ; R. De, M.A., B.Sc. *Polit. Philos. and Econ.*—J. Kellas, M.A. ; N. C. Bhattacharyya, M.A., B.L. ; L. A. Natesan, M.A. ; A. Mundle, M.A. *Sansk.*—D. Bhattacharyya, M.A. ; R. Bhattacharyya, M.A. 17 other Teachers.

CALCUTTA, *Victoria Institution for girls*. B.A. Principal—Mrs. L. Banerjee. 13 other Teachers.

CALCUTTA, *Vidyasagar College*. B.A., B.Com., and B.Sc. Principal—B. C. Ghosh, M.A., M.B., B.Ch. Camb. 90 other Teachers.

CHANDARNAGORE, *College Duplex*. Interm. Principal—D. N. Mukherjee, M.A. 9 other Teachers.

CHITTAGONG, *Chittagong College* (Govt.). B.A. and B.Sc. Principal—P. B. Rudra, M.A. (Offg.). 28 other Teachers.

COMILLA, *Victoria College*. B.A. Principal—R. G. Nath, M.A. 22 other Teachers.

CONTAI, *Prabhatkumar College*. Interm. Principal—Nepalchandra Ray, M.Sc. 4 other Teachers.

COOCH-BEHAR, *Victoria College*. B.A. and B.Sc. Principal—S. C. Gupta, M.A. 16 other Teachers.

DARJEELING, *St. Joseph's College*. Interm. Rector—Rev. Father A. Schockaert, S.J. 4 other Teachers.

DARJEELING, *St. Paul's School*. Interm. Rector—L. J. Goddard, M.A. Camb. 5 other Teachers.

DAULATPUR, *Hindu Academy*. B.A. and B.Sc. Principal—B. B. Bhattacharyya, M.A. 32 other Teachers.

FARIDPUR, *Rajendra College*. B.A. Principal—K. N. Mitra, M.A., B.L. 17 other Teachers.

FENI COLLEGE. B.A. Principal—A. C. Rakshit, M.A. 17 other Teachers.

GAUHATI, *Cotton College* (Govt.). M.A. in English (A Group) ; B.A. and B.Sc. Principal—S. C. Roy, M.A. Lond. 28 other Teachers.

GAUHATI, *Earle Law College* (Govt.). B.L. Principal—J. Borooah. 3 other Teachers.

HETAMPUR, *Krishnachandra College*. B.A. Principal—B. C. Sengupta, M.A., B.L. 8 other Teachers.

HOWRAH, *Narasinha Dutt College*. Interm. Principal—S. C. Mookerjee M.A. 12 other Teachers.

HUGHLI MOHSIN COLLEGE (Govt.). B.A. and B.Sc. Principal—H. Sengupta, M.A. 22 other Teachers.

JORHAT COLLEGE. Interm. Principal—K. K. Handiqui, M.A. 9 other Teachers.

KALIMPONG, *Scottish Universities Mission College*. Interm. Principal—Rev. G. S. Mill, M.A., B.Sc. 6 other Teachers.

KARATIYA, *Saadat College*. Interm. Principal—Maulvi Ebrahim Khan, M.A., B.L. 8 other Teachers.

KRISHNAGAR COLLEGE (Govt.). B.A. and B.Sc. Principal—J. M. Sen, B.Sc., M.Ed. Leeds. 19 other Teachers.

KURSEONG, *Victoria School*. Interm. Principal—E. C. Hessing, M.A. 6 other Teachers.

MIDNAPUR, *Midnapur College*. B.Sc. Principal—B. D. Banerjee, M.A. 12 Teachers.

MYMENSING, *Anandamohan College*. B.A. Principal—K. Chakravarti, M.A., Ph.D. 30 Teachers.

NARAIL, *Victoria College*. Interm. Principal—Gopalchandra Maitra, M.A. 6 other Teachers.

PABNA, *Edward College*. B.Sc. Principal—Rai R. N. Bose, Bahadur, M.A. 14 other Teachers.

RAJSHAHI, *Rajshahi College* (Govt.). B.A. and B.Sc. Principal—J. M. Bose, M.A., B.Sc. Edin. 43 other Teachers.

RANGPUR, *Carmichael College*. B.A. and B.Sc. Principal—D. N. Mallik, B.A. Camb., Sc.D. Dub., B.Sc. Lond. 30 other Teachers.

SERAMPUR COLLEGE. B.A. Principal—Rev. G. H. C. Angus, M.A., B.D. 19 other Teachers.

SHILLONG, *Salesian College*. Interm. Principal—E. Gutierrez, D.D. 11 other Teachers.

SHILLONG, *St. Edmund's College*. B.A. and B.T. Principal—Rev. Br. J. N. McGee. 10 other Teachers.

SHILLONG, *St. Anthony's College*. Interm. Principal—Rev. Fr. J. Ricaldone, S.C. 8 other Teachers.

SILCHAR, *Gurucharan College*. Interm. Principal—A. K. Chanda, B.L. 14 other Teachers.

SYLHET (Habiganj), *Brindaban College*. Interm. Principal—D. D. Chaudhury, M.A. 8 other Teachers.

SYLHET, *Murarichand College* (Govt.). B.A. and B.Sc. Principal—Khan Bahadur A. A. Sayied, M.A. 30 other Teachers.

UTTARPARA COLLEGE. Interm. Principal—Dhrubakumar Pal, M.A., B.Sc. B.L. 9 other Teachers.

## GENERAL INFORMATION

In July 1854 the Court of Directors of the East India Company sent a despatch to the Governor-General of India in Council directing the organisation of the Universities of Calcutta, Madras and Bombay. In pursuance of that despatch the University of Calcutta was incorporated on January 24, 1857, for the purpose of "ascertaining, by means of examination, the persons who have acquired proficiency in different branches of Literature, Science and Art and rewarding them by Academical Degrees as evidence of their respective attainments and marks of honour proportioned thereunto." Modelled on the University of London, then a purely examining body, the functions of the University were limited to the conduct of examinations and the award of degrees. The jurisdiction of the University extended at first throughout practically the whole of northern India. But with the establishment of other Universities the territorial jurisdiction has been limited to the

Provinces of Bengal and Assam (with the exception of a small area under the control of the University of Dacca). In 1864 an Act was passed by which the Universities of Calcutta, Madras, and Bombay were empowered to confer the honorary Degree of Doctor in the Faculty of Law.

In 1902, a Commission was appointed by Lord Curzon to examine the working of the Universities in India, and on their recommendation the Indian Universities Act of 1904 was passed which came into force on September 1, 1904. Under section 3 of Act VIII. of 1904, the University became empowered, among other things, to make provision for the instruction of students, to appoint University Professors and Lecturers, to hold and manage educational endowments, to erect, equip and maintain University libraries, laboratories and museums, and to make regulations relating to residence and conduct of students. Though the bulk of teaching continued to be imparted in the affiliated colleges, teaching in some of the higher branches began to be organised under University management. Assisted by grants from the Imperial Government and by private benefactions, it was possible for the University to arrange for Post-graduate teaching and research from 1909. The organisation of higher teaching and research was made by the Senate mainly on the initiative of the late Sir Asutosh Mookerjee, Vice-Chancellor from 1906-14 and again from 1921-23.

In 1917 a new scheme for Post-graduate teaching and research was brought into operation, providing for the centralisation of Post-graduate teaching in Calcutta within and under the control of the University. The departments of Post-graduate teaching in Arts and Science were placed under two Councils, with two Executive Committees, responsible directly to the Senate. The University now provides for Post-graduate teaching in: (1) English; (2) Sanskrit; (3) Pali; (4) Arabic; (5) Persian; (6) Indian Vernaculars, Bengali, Hindi, Urdu; (7) Comparative Philol.; (8) Mental and Moral Philos.; (9) History; (10) Polit. Econ. and Polit. Philos.; (11) Commerce; (12) Maths. (Pure and Applied); (13) Physics (Pure and Applied); (14) Chemistry (Pure and Applied); (15) Physiol.; (16) Botany; (17) Geol.; (18) Zool. and Comparative Anat.; (19) Experimental Psychol.; (20) Anthropol.

The Department of Post-graduate Teaching and Research in Arts is located in the Asutosh Building. Post-graduate Teaching and Research in the different branches of Scientific studies are carried on in the University College of Science at 92 Upper Circular Road, and 35 Ballygunge Circular Road, where opportunities for research have been provided by the establishment of extensive Laboratories and an up-to-date Workshop. This has been possible mainly through the generosity of the late Sir Taraknath Palit, D.L., the late Sir Rashbehary Ghose, C.S.I., M.A., D.L., Ph.D., and the late Raja of Khaira. The University maintains a staff of whole-time and part-time teachers.

Government grants from 1912 to 1937 amounted to Rs. 89,56,220, including Rs. 9,57,835 for endowed chairs, and Rs. 15,30,024 for Hostels and a Students' Mess Scheme. During the same period private benefactions amounted to Rs. 67,66,787.

The Univ. buildings include a Senate House, the Durbhanga LIBRARY with Law College, Hostel, and Univ. offices, the Univ. Press, the Asutosh Building for post-graduate classes in Arts, post-graduate offices and the Univ. library, three buildings for the teaching of Post-graduate Science courses. LABORATORIES (in Univ. Coll. of Science): Phys. and Chem. (Pure and Applied), Applied Maths., Expl. Psych., Biol., etc. MUSEUMS: Asutosh Museum of Indian Arts and Museums attached to the Anthropological and Commercial sections of the Univ.

**FACULTIES.** Arts, Law, Science, Medicine, Engineering.



DEGREES, ETC. B.A., M.A., Ph.D.; B.Sc., M.Sc., D.Sc.; B.E., D.Sc. (Engin.); B.Com.; B.T.; B.L., M.L., D.L.; M.B., M.D., M.S., M.O., D.Sc. (Public Health), D.P.H.; D.O.M.S. (Diploma in Ophthalmic Med. and Surg.; D.S.E. (Diploma in Spoken English).

SCHOLARSHIPS, ETC. (a) In India—Premchand Roychand, Rs. 2400 p.a., tenable for 2 yrs., awarded annually, 1 in Lit. and 1 in Science; Sreegopal Basu Mallik Fellowship, Rs. 4000, in Vedanta (compared with Western) Philosophy; Sir Praphullachandra Ray Fellowship, 2 at Rs. 200 p.m. each, for researches in Chemistry. In addition, numerous other scholarships, medals and prizes are awarded both for research work and on the results of examn. (b) Abroad—Sir R. B. Ghose Travelling Fellowship, 3 of the value of Rs. 4400 each for Research or Investigation out of India for 1 yr.; Guruprasanna Ghose, 1 annually, tenable for 3 yrs. in Japan (Rs. 1000) or in Europe or America (Rs. 2000) by Bengali Hindus; Palit (Rs. 1,00,000) for Research or Investigation out of India for 1 yr.; Radhikamohan, 1 (Rs. 1,50,000) Endowment for advanced study abroad, tenable for 2 yrs. by Bengalee Brahmins; founded by Prof. H. C. Mookerjee—(i.) Lalchand Mookerjee Scholarships, Rs. 1,50,000 Endowment for Theoretical and Practical training abroad in Technical, Industrial and other allied subjects for Bengalee Protestant Christian students; (ii.) Sreemati Prasannamayee Mookerjee Scholarships, Rs. 1,00,000 Endowment for training in Applied Commerce and Business Education—1 tenable abroad (Rs. 200 p.m.) and 1 within India (Rs. 50 p.m.) for Bengalee Protestant Christians; (iii.) Lalchand Mookerjee Indian Scholarships, Rs. 50,000 Endowment for training in Applied Commerce and Engin. for Bengali Protestant Christian students.

RESIDENCE. There are four classes of lodgings for students: (a) Collegiate Hostels; (b) Non-collegiate Hostels under external management; (c) Messes, attached or unattached; (d) Private Lodgings. Licences to Hostels under class (a) are granted by the Syndicate, while licences to the remaining three classes of lodgings are granted by the Students' Residence Committee—a subordinate body under the Syndicate, consisting of six members appointed annually from among the Members of the Senate.

STUDENTS' WELFARE. Principals of Colls. and specialists in physical edn. deal with all matters relating to the health of students, including physical education and organization of games and other forms of recreation. There is a whole-time Univ. Organizer of Physical Education. A Students' Infirmary is maintained, free of cost, for students requiring hospital treatment. Glasses are supplied to students with defective vision at concession rates. Military Training is provided for a Univ. Corps recruited from affiliated colleges. All 1st yr. students in Calcutta Colls. are medically examined.

STUDENTS' INFORMATION BUREAU. The University has established a Bureau in Calcutta for the purpose: (a) of supplying students wishing to pursue their education abroad with all the information, advice, and assistance which they may require; (b) of supplying the foreign Univ. authorities with information regarding the students which will enable them to make their selections from the applications forwarded.

SPECIAL UNIVERSITY PROFESSORSHIPS AND LECTURESHIPS. Tagore Professorship in Law, Rs. 9000; S. N. Ghosh Lectureship in Comp. Religion, Rs. 9000; Kamala Lectureship in Indian Life and Thought, Rs. 2000 and a gold medal; also other lectureships.

SPECIAL LECTURES. With a view to promoting a desire for original investigation and research, eminent scholars from India and abroad are, from time to time, invited by the Univ. to deliver courses of lectures on subjects in

which they have specialised. These lectures, after delivery, are printed and published by the Univ.

**LIBRARIES.** The University Library is under the management of the Library Executive Committee, subject to the general control of the Syndicate. It is for the use of Resident Fellows, Registered Graduates, Research Scholars, Readers, Professors, Lecturers and students of Post-graduate classes, and Teachers of the Undergraduate classes of this University. It contains over 2,06,000 vols., including pamphlets and periodicals, and a fairly large collection of Bengali and Tibetan MSS, and Rotograph copies of Persian and Arabic MSS. 593 books of the Sung Dynasty Tripailaka presented by the Consul-General for China.

Besides this Library, there are other Libraries attached to the Univ., viz. Law College Library and Libraries of the Departments of Science.

**UNIVERSITY PRESS.** The Univ. undertakes the publication of specialized lectures delivered by the Univ. Professors, Lecturers, and Readers, theses of successful candidates for degrees, scholarships and prizes and results of research work carried out by Univ. Professors, Lecturers, and Research Assts., besides a number of periodicals, annuals, and serials.

**PUBLICATIONS.** *Calendar*, Rs. 7.8; *Univ. Regulations*, Rs. 4; *Convocation Addresses*, 1924-1932 and 1915-1923, each Rs. 5, 1858-1923, Rs. 10; *Calcutta Review*, monthly, annual subsn., Rs. 7.8 inland, 14 shillings foreign; *Journals* of Depts. of Letters, vols. i. to xv., Rs. 9 each; xvi., xvii., Rs. 6 each; xviii., Rs. 7.8; xix. to xxiv., Rs. 6 each; *Journal* of the Dept. of Science, vols. i. to vii., Rs. 9 per vol.; vol. viii., Rs. 6; vol. ix., Rs. 5.4; vol. x., Rs. 6; Sir Asutosh Mookerjee Silver Jubilee volumes—vols. i., ii., and vol. iii. in 3 parts, Rs. 11.4 each; *Bulletin* of Math. Society, etc. Other publications (over 450 vols.) on Ancient Indian Culture, History, Philosophy, Law, Economics, Mathematics, Language, and Science. A descriptive catalogue of University Publications may be had on application to the Registrar.

## THE YEAR 1936-37

**BENEFACTIONS.** For Scholarship, medals, etc., Rs. 62,200. The amount includes Rs. 25,000 from the representatives of the families of the late Rai Bahadur Mokhrum Kanodia for establishing a laboratory for Communication Engineering and Rs. 10,000 from Sir Praphullachandra Ray for research in Botany and Zoology in memory of the late Sir Asutosh Mookerjee.

**OTHER DEVELOPMENTS.** Scheme for study of Military Science as optional subject in curriculum of studies for Intermediate, B.A., B.Sc., B.Com., I.E., and B.E. Exams. sanctioned by Government.

**TEACHERS' TRAINING DEPARTMENT.** On account of paucity of arrangements for the training of teachers for High Schools in Bengal, and particularly to meet the needs for specialized training in teaching subjects under the revised Matriculation Regulations, the Univ. has opened a Teachers' Training Dept. under its own supervision. Arrangements have been made for the following courses for the present: (i.) Short Training Course, (ii.) Vacation Course, (iii.) Geography Teachers' Course, (iv.) Science Teachers' Course. Regular Exams. are held at the end of these courses and certificates are granted to successful candidates. The Dept. also organizes lectures by eminent educationists, of general and public interest on education and allied topics.

**APPOINTMENTS AND INFORMATION BOARD.** Scheme prepared by the Vice-Chancellor, Mr. Syamaprasad Mookerjee, for a partial solution of un-

employment among Univ. graduates and undergraduates, with co-operation of business houses and different industrial concerns adopted by Senate on Jan. 23, 1937. Its object is to provide these young men with opportunities and facilities for practical training and ultimately for starting independent careers of their own, in the different branches of Trade, Industry and Commerce. Rs. 36,000 has been sanctioned by the Univ. for the purpose and an Appointments and Information Board has been established with a salaried Secretary who is in touch with the various industrial and commercial firms and maintains a Register of unemployed men with details of their qualifications and careers, seeking benefit under the scheme.

**CHANGES IN REGULATIONS.** Practical examn. in Science subjects for I.A. and I.Sc. Examns. introduced. Practical training in Astronomy for B.A. and B.Sc. Mathematics (Hons.) introduced. Syllabuses for I.A., I.Sc., B.A. and B.Sc. in Zoology and for M.A. and M.Sc. Examns. in Pure Mathematics, and for M.A. in Pali revised. Age restriction for Matriculation Examns. abolished. Changes effected in academical costumes.

**EXTRA-MURAL WORK.** Prof. Arthur Mowat, M.A. (English) Scottish Church College, appointed Extra-mural Lecturer for session 1937-38.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES AS SPECIAL UNIVERSITY READERS AND EXTENSION LECTURERS.** *Readers* : Dr. Hermann Goetz (Kern Inst., Leyden), on "The Genesis of Indo-Muslim Civilisation"; Dr. Rajanikanta Das (Geneva), on "Principles and Problems of Indian Labour Legislation." *Extension Lecturers* : Sir John Russell, D.Sc., F.R.S. (Rothamsted, England); Dr. Andrew Krzyzanowski (Krakow); Dr. Guathorus H. Mees (Kern Inst., Leyden); Mr. D. N. Banerjee (Dacca).

**RETIREMENT.** Prof. Sir P. C. Ray (Chemistry).

**DEGREES.** B.A., 2382; M.A., 320; B.Com., 151; B.L., 562; B.Sc., 626; M.S., 98; D.Sc., 1; B.T., 95; B.E., 34; M.B., 134; Ph.D., 3; D.P.H., 21.

**STUDENTS.** 3422 graduates; 30,363 undergraduates.

# UNIVERSITY OF DACCA

Founded 1921

Address—Ramna, Dacca, Bengal.

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF BENGAL

VICE-CHANCELLOR—R. C. MAJUMDAR, M.A., Ph.D. Calc.

TREASURER—K. SHAHABUDDIN, C.B.E.

REGISTRAR—KHAN BAHADUR NAZIRUDDIN AHMAD, M.A.

LIBRARIAN—M. RAY, M.A., B.L.

## TEACHING STAFF

### *Arabic and Islamic Studies*

Hossain, S. M., M.A., D.Phil. Ox.  
Prof.  
Taufiq, M. A., M.A., M.O.L. Panj.  
Temp. Reader.  
Aziz, Md. A., M.A. Lectr.  
2 Class II. Lectrs.

### *Bengali*

Shahidullah, M., M.A. Calc., D. ès  
L. Paris Reader.  
Majumdar, M. L., B.A. Calc.  
Lectr.  
3 Class II. Lectrs.

### *Botany*

1 Class II. Lectr.

### *Chemistry*

Ghosh, J. C., D.Sc. Calc. Prof.  
Chowdhury, J. K., M.Sc. Calc.,  
Ph.D. Berl.  
(Analytical C.) Reader.  
Guhasarkar, S. S., D.Sc. Lond.  
Reader.

### Lecturers :

De, R. L., M.Sc. Calc.  
Purkayastha, R. M., M.Sc. Calc.  
Basu, K. P., D.Sc., D.Phil.  
Munich (Tempy.).  
1 Class I. Lectr. (Colloid C.).  
7 Class II. Lectrs., 1 Demr.

### *Commerce*

Junnarkar, P. B., M.A., LL.B.  
Bom. (Acctcy. and Business  
Organizn.) Reader.\*  
Sen, B. B., M.A. Lectr.  
2 Class II. Lectrs., 2 Pt.-time  
Lectrs.

### *Economics and Politics*

Dey, H. L., M.A., D.Sc. Lond.  
Prof.  
Banerjee, D. N., M.A. Calc.  
Reader.  
Ayyar, S. V., M.A. Madr. Lectr.  
Shaha, K. B., M.A., Ph.D. Calc.  
Lectr.  
Dam, M. L., M.A. Calc. Lectr.  
Sen, A. K., M.A. Calc. Lectr.  
5 Class II. Lectrs.

### *Education*

Khan, A. R., Khan Bahadur,  
M.A., B.T. Calc.  
Hon. Reader.\*  
6 Hon. Teachers.

### *English*

Hasan, M., Khan Bahadur, M.A.  
Calc. and Ox., D.Phil. Ox.  
Prof.  
Roy, S. N., M.A. Calc., Ph.D. Lond.  
Reader.

\* Head of Department.

## Lecturers :

Guha, P. K., M.A., B.L. Calc.  
 Ray, B. K., M.A., B.L. Calc., Ph.D.  
 Chanda, S. M., M.A. Calc., B.A. Ox.  
 Chaudhury, J. N., M.A. Calc.  
 Ganguli, S., M.A. (Tempy.).  
 3 Class II. Lectrs.

*History*

[Prof.]

Qanungo, K. R., M.A., Ph.D. Calc.  
 Husain, M., Dr.phil. Heidelb.  
 Reader.  
 Bhattacharyya, S. N., M.A., Ph.D.  
 Calc. Lectr.  
 Sen, J., M.A. Lectr.  
 2 Class II. Lectrs.

*Law*

Dasgupta, J. N., M.A., D.L.  
 Calc. Prof.

## Lecturers :

Duttagupta, A. K., M.A., B.L.  
 Calc.  
 Pal, N. C., M.A., B.L. Calc.  
 4 Part-time Lectrs.

*Mathematics*

Basu, N. M., D.Sc. Calc. Prof.  
 Vijayaraghavan, T., D.Phil. Ox.  
 Reader.  
 Ganguly, D. N., M.A. Calc. Lectr.  
 Sircar, H., D.Sc. Calc. Lectr.  
 Mitra, S. C., M.A., Ph.D. Calc.  
 Lectr.  
 1 Class II. Lectr.

\* Head of Department.

*Persian and Urdu* [Reader.\*]

Borrah, M. I., M.A., Ph.D. Lond.  
 Azad, S. M. Z. H., B.A. Panj. Lectr.  
 Shadani, W. H. A., M.A., M.O.L.  
 Panj., Ph.D. Lond. Lectr.  
 1 Class II. Lectr.

*Philosophy*

[Reader.\*]

Bhattacharyya, H., M.A. Calc.  
 Gupta, U. N., M.A. Calc. Lectr.  
 Ahmed, M., M.A. Lectr.  
 Mukherji, K. C., M.A. Calc. Lectr.  
 1 Class II. Lectr.

*Physics*

Bose, S. N., M.Sc. Calc. Prof.  
 Khastgir, S. R., D.Sc. Calc. Reader.  
 Banerjee, K., D.Sc. Calc.  
 Tempy. Reader.  
 Guha, B. C., M.Sc. Cal. Lectr.  
 7 Class II. Lectrs.

*Physiology*

1 Class II. Lectr.  
 1 Pt.-time Lectr.

*Sanskrit*

De, S. K., M.A., B.L. Calc., D.Lit.  
 Lond. Prof.  
 Lahiri, P. C., Ph.D. Lond., M.A.  
 Lectr.  
 1 Class I. Lectr.  
 2 Class II. Lectrs.

ASSOCIATED COLLEGE. Teachers' (Govt.) Training College, Dacca. The Principal and teachers are recognized teachers of the Univ. and the College students read for the L.T. and B.T. in accordance with regns. prescribed on that behalf.

## GENERAL INFORMATION

This Univ. was established in 1921 under an Act of 1920, which provides for the constitution of Faculties of Arts, Science, Law, Agriculture, and Medicine. Special attention is devoted to Islamic Studies and to the needs of the Musalman community, but the Univ. is open to all, without distinction of sex, race, creed, or class. It is a unitary and residential Univ., with a constitution resembling in many respects that of the modern English universities. The Authorities of the Univ. include a Court, an Executive Council, an Academic Council, and Faculties; and the Teaching Staff has the main responsibility for all matters

connected with teaching and examns. The students (other than those living under specially approved conditions) reside in Halls and Hostels, and the Univ. teachers in houses erected for them, in the Univ. domain. The domain consists of about a square mile of fine park land, including over 100 acres of playing fields. It is adjacent to the Civil Station of Dacca and to a park called the Ramna, and lies from 1 to  $1\frac{1}{2}$  miles north-west from the centre of Dacca City. It is provided with electric light and power.

The chief buildings for teaching and administrative purposes include : Central buildings, containing about 200 rooms (area 94,000 sq. ft.), used for Class-rooms and Library ; Chemical and Physical Laboratories (area 26,500 sq. ft.) ; the Curzon Hall (which accommodates about 2000 persons) ; the Dacca Hall residence for 160 students ; the Jagannath Hall for 200 students ; and the Salimullah Muslim Hall for 296 students.

LIBRARY, 76,000 vols., and about 20,418 MSS. in Sanskrit, Bengali, Urdu, Persian, and Arabic. Annual Library grant, Rs. 20,000. The University MSS. Committee (Bengali and Sanskrit Section) have already collected c. 20,487 valuable Sanskrit and Bengali MSS. The Arabic, Persian, Urdu, and Punthi MSS. Committee have collected 418 rare and valuable MSS.

LABORATORIES. Physical, with metal and wood workshops ; Chemical, with special arrangements for training in commercial analytic methods ; and Psychological.

FACULTIES. Arts, Science, Law.

ADMISSION. The standard required for admission to courses leading to degrees is that of the Intermediate examn. of an Indian Univ.

DEGREES, ETC. The duration of the courses of studies prescribed is as follows : for B.A. or B.Sc. ordinary, 2 yrs., with Honours, 3 yrs. ; Diploma in Practical English, 1 yr. ; M.A. or M.Sc., 2 yrs., or in the case of a Dacca Honours B.A. or B.Sc., 1 yr. ; B.T. or L.T., 1 yr. ; M.T., 3 yrs. ; B.Com., 2 yrs. ; B.L., 3 yrs. (All M.A. and Dacca Honours B.A., 2 yrs.) ; M.L., 3 yrs. The Ph.D., D.Sc., or D.L. are open to graduates of 3 yrs.' standing, but graduates of other Univs. must pursue researches in this Univ. for 2 yrs. ; published research work required.

SCHOLARSHIPS open to graduates : 3 of Rs. 40 each p.m., 2 of Rs. 30, 9 of Rs. 10 p.m., with exemption from tuition and examn. fees, of which one is for depressed classes only and one for women students only, 2 of Rs. 30 (for backward classes only), 1 of Rs. 30 for Muhammadans only, 2 of Rs. 25 (Muhammadans only). Law Scholarship of Rs. 25 (open to Law graduates). Research studentships : 1 of Rs. 75 p.m. and 11 of Rs. 50.

FEES. Tuition, per session ; for B.A., B.Sc., or B.L. course, Rs. 96 ; for B.Sc. with Honours in Physics and Chemistry, Rs. 120 ; M.A., Rs. 120 ; M.Sc., Rs. 144 ; Diploma Course in Practical English, Rs. 60 ; Registration, R. 1 ; Admission, Rs. 5 ; Athletic, Rs. 5 ; Students' Union, Rs. 3.8 ; Research students, Rs. 10 ; Enrolment of Registered Graduates, Rs. 5 ; Enrolment of Registered Graduates for Life, Rs. 25. HOSTELS : Seat-rent varies from Rs. 2 to Rs. 4 p.m., including cost of light, water, medical attendance, medicine, and servants. Cost of food about Rs. 12 p.m.

TUTORIAL CLASSES have been organized for all the Depts. of Study. All the teachers of the Univ. are engaged in this work under the control of the Heads of the Depts. and the Provosts.

PUBLICATIONS. *Prospectus* (December) ; *Annual Report* (November) ; *Bulletins* ; *Calendar*.

## THE YEAR 1936-37

EXTRA-MURAL WORK. As in previous years, public lectures were delivered by members of the teaching staff of the University.

RETIREMENTS. G. Bhattacharyya (Sanskrit and Bengali); C. Bandyopadhyaya (Sanskrit and Bengali).

RESIGNATIONS. A. F. Rahman, Vice-Chancellor; Parimal Roy (Economics and Politics).

HONORARY DEGREE. *LL.D.*—A. F. Rahman, late Vice-Chancellor.

STUDENTS. Full-time : 1209, including 386 graduates. Part-time : 220.

DEGREES. B.A. (Ord.), 117; B.A. (Hons.), 37; M.A., 53; B.Com., 29; B.L. (July, 1936), 23; B.L. (Jan., 1937), 17; B.Sc. (Ord.), 59; B.Sc. (Hons.) (including combined course), 14; M.Sc., 25; D.Sc., 1; B.T., 89; Ph.D. 1.

# UNIVERSITY OF DELHI

Founded 1922

CHANCELLOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

PRO-CHANCELLOR—Hon. KANWAR SIR JAGDISH PRASAD, K.C.S.I.,  
C.I.E., O.B.E., I.C.S.

VICE-CHANCELLOR—RAI BAHADUR RAM KISHORE, B.A., LL.B. Panj.

TREASURER—RAI BAHADUR S. N. MUKARJI, M.A. Panj., B.A. Camb.

REGISTRAR—RAI BAHADUR N. K. SEN, M.A. Calcutta.

APPOINTED (\*) AND RECOGNIZED TEACHERS OF THE UNIVERSITY, for  
classes above Intermediate standard.

(S.), (H.), (R.), (A.), (C.), and (I.), denote St. Stephen's, Hindu, Ramjas, Anglo-  
Arabic, Commercial, and Indraprastha Girls' Colleges respectively.

## *Arabic, Persian, and Urdu*

Rahman, A., Maulvi Fazil, Munshi  
Fazil Panj. (Hd. of Dept.) (S.).

Verma, A. N., M.A. Calc. (H.).

Ali, Syed Azhar, Ph.D. Camb.,  
M.A., M.O.L., Munshi Fazil  
Panj. (S.).

Feroz, Bakht, M.A. Alig. (R.).

Jan, Sagheer Ahmad, M.A. All.  
(C.).

Kaushic, Asa Ram, M.A. Delhi &  
Agra. (R.).

Qureshi, Ishtiaq Husain, M.A.  
(S.).

Musavi, Mansur Husain, M.A. All.  
(A.).

Zaidi, Syed Mohd. (A.).

Sarup, Bhagwat, M.A., M.O.L.,  
Munshi Fazil Panj. (H.).

## *Chemistry*

Laroia, B. D., B.A. Ox., B.Sc.  
Panj., Ph.D. Lond.

Univ. Reader,\* Head of Dept.

## *Economics*

Ganguli, B. N., M.A. Calc. (H.).

Ghosh, A. B., M.A. (C.).

Narain, Hirde, M.A. Panj. (H.).

Nag, K. C., M.A. Calc., Hd. of  
Dept. (S.).

Narain, Radhka, M.A. (C.).

Mathur, Raj Narain, M.A. (H.).

Pardasani, N. S., M.A. (R.).

Vaswani, M. H., M.A. Bom. (R.).

Zaidi, S. Shaukat Husain, M.A.  
(A.).

Bose, S. K., M.A. (S.).

## *English and History*

Young, C. B., M.A. Ox. (Hd. of  
Dept. of English) (S.).

Samad, A., M.A. Alig. (A.).

Bhattacharya, A., M.A. Ox. (H.).

Kursheed, S. A., M.A. (A.).

Dayal, S., M.A. Panj. (H.).

Dave, M. J., M.A. Bom., Ph.D.  
Dub., D. ès L. (R.).

Gupta, Miss K., M.A. (I.).

Spear, T. G. P., B.A., Ph.D.  
Camb. (Hd. of Dept. of Hist.)  
(S.).

Sarkar, K. M., M.A. Panj. (S.).

Eyre-Walker, C., M.A. Ox. (A.).

Lorimer, R. C., M.A. St. And. (A.).

Das, Ramsaran, M.A. (R.).

Rai, Ganpat, M.A. Panj. (H.).

Bhandari, D. R., B.A. Lond. (R.).

Thadani, N. V., M.A. Bom. (H.).

Dutt, S., M.A., Ph.D. Calc. (R.).

Mookerjee, A. K., M.A. Calc., B.A.  
Ox. (H.).



Rajendranath, M.A.	(C.).	Ram, Sri, M.A. Panj.	(H.).
Vaswani, M. H., M.A. Bom.	(R.).	Shankar, Hari, M.A.	(A.).
Chopra, R. P., M.A.	(R.).	Seth, B. R., M.A., M.Sc., Ph.D.	(H.).
Sharma, B. D., M.A.	(R.).	London.	(H.).
Sen, S., M.A. Calc.	(C.).	Cockin, C. M., M.A.	(S.).
Chand, B., M.A. Panj.	(H.).	Dass Gupta, Purshotan, M.A.	(R.).
Loukes, H., B.A. Ox.	(S.).	Das Gupta, S. R., M.A., Ph.D.	(C.).
Annand, E. R., B.A. Camb.	(S.).	Calc.	(C.).
Prahlad, Krishna, M.A.	(C.).	<i>Persian, v. Arabic</i>	
Ali, Syed Azhar, Ph.D. Camb.,		<i>Philosophy</i>	
M.A., M.O.L., Munshi Fazil		Sen, N. K., M.A. Calc.	
Panj.	(S.).	Univ. Reader,* (Hd. of Dept.)	
Qureshi, I. H., M.A.	(S.).	Bose, S. K., B.A. Camb., M.A.	(R.).
Kerr, J. B., B.A. Dub.	(S.).	Davenport, S. F., M.A. Camb.	(S.).
Richardson, H. B., B.A. Camb.	(S.).	Sen, Indra, M.A., Ph.D.	(H.).
Raju, J. B., M.A. Madr., B.Sc. Ox.	(S.).	Begg, Mirza Muhd., M.A.	(A.).
Bahadur, Umrao, Ph.D. Edin.,		Banerji, N. V., M.A. Calc., Ph.D.	(R.).
M.A.	(H.).	London.	(R.).
Pardasani, N. S., M.A. Bom.	(R.).	Saksena, Shri Krishna, M.A.	(H.).
<i>Law</i>		Raju, J. B., M.A. Madr., B.Sc. Ox.	(S.).
Kishore, Rai Bahadur Ram, B.A.,		<i>Physics</i>	
LL.B. Panj.		Kothari, D. S., M.Sc. All., Ph.D.	
Hon Reader and Dean.		Camb.	
Bose, S. N., B.A., LL.B. Panj.		Univ. Reader,* (Hd. of Dept.)	
Hon Reader.		<i>Sanskrit</i>	
Shahani, M. S., M.A. Ox.	Lectr.*	Dhar, Lachhmi, M.M.Pt., M.A.,	
Swarup, B., B.A., LL.B. Panj.	Lectr.*	M.O.L. Panj., Hd. of Dept.	(S.).
Hasan, Sarwar, M.A., LL.B. Camb.	Lectr.*	Chaudhri, N. N., M.A. Panj.	(R.).
<i>Mathematics</i>		Kaul, K. N., M.A., M.O.L. Panj.	(H.).
Bannerji, A. T., M.A. Calc.	(H.).	Sharma, Ganga Ram, B.A.	(R.).
Mukerji, S. N., M.A. Panj., B.A.		Sharma, Har Dutt, M.A., Ph.D.	(H.).
Camb. (Hd. of Dept.)	(S.).		
Ram, Behari, M.A. Panj., B.A.		<i>Urdu, v. Arabic</i>	
Camb., Ph.D. Dub.	(S.).		

## GENERAL INFORMATION

The three constituent colleges, formerly affiliated to the Univ. of the Panjab, were united to form a teaching and residential Univ. (Govt. of India Act, No. VIII. of 1922), with effect from May 1, 1922. Subsequently four Intermediate Colleges, three for boys and one for girls, were recognized as Constituent Colleges of the Univ., namely : The Anglo-Arabic, Ramjas Intermediate, Commercial, and Indraprastha (girls'). The Anglo-Arabic Coll. was recognized in 1930, the Commercial Coll. in 1932 and the Indraprastha Girls' Coll. in 1937, for teaching up to the B.A. (Pass) degree in certain specified subjects. The authorities of the Univ. are a Court, an Executive Council, an

Academic Council, and Faculties and Boards of Studies. The Univ. does not itself hold a Matricn. Examn. As a temporary measure, it admits students who have passed the matricn. examns. of other Indian Univs. and recognized Boards.

FACULTIES and Deans : Arts, Dr. T. G. P. Spear ; Science, Dr. B. D. Laroia ; Law, Rai Bahadur Ram Kishore.

DEGREES. B.A. (Pass and Hons.), B.Sc., M.A., LL.B., LL.M., LL.D.

AVERAGE HOSTEL EXPENSES, Rs. 20 p.m.

PUBLICATIONS. *Calendar* (published triennially), Rs. 3 ; *Courses of Reading* ; *Question Papers* ; *Annual Report and Annual Accounts* ; *Minutes* ; Convocation Addresses by Chancellor and Vice-Chancellor.

## THE YEAR 1936-37

BENEFACTIONS. Sir Sultan Ahmad Khan Sahib, Muntazim-ud-Daula, Senior Member, Council of Regency, Gwalior, bequest of Rs. 20,000.

RETIREMENT. C. C. Mitra, Recognized Reader in Philosophy.

DEATH. Mahamahopadhyaya Pandit Har Narain Shastri, Recognized Reader in Sanskrit.

OTHER DEVELOPMENTS. In connexion with the general scheme of reconstruction of higher and secondary education proposed by the Govt. of India, and in pursuance of the Scheme of Federal Univ., the Univ. has accepted the principle of a 3-yr. B.A. and B.Sc. Course (Pass and Honours) on certain conditions, chief of which are : (i.) that adequate facilities for further education on vocational lines on completion of a shortened secondary course be provided by Govt. ; (ii.) that schools adequately staffed and equipped and separately organized for a 3-yr. higher secondary course be provided for pupils desirous of admission to a 3-yr. degree course in the Univ.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Jan. 1937, Dr. Hermann Goetz (Univ. of Leiden), "The Genesis of Indo-Muslim Civilization." Prof. U. S. Gheba, "Psycho-Analysis." Dr. J. C. Sinha (Presidency College, Calcutta), delivered the annual Sir Kikabhai Prem Chand Readership lectures in Economics in Feb. 1937, subject—"Indian Currency Problems in the Last Decade."

STUDENTS. Full-time : 2344, including 311 graduates.

DEGREES. B.A., 209 ; B.A. Hons., 39 ; M.A., 36 ; LL.B., 77 ; B.Sc., 43.

# UNIVERSITY OF LUCKNOW

Founded 1921

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR—R. P. PARANJPYE, M.A., D.Sc.

HON TREASURER—S. M. HABIBULLAH, O.B.E., B.A., M.L.C.

REGISTRAR—R. R. KHANNA, M.Sc.

PROCTOR—J. A. STRANG, M.A., B.Sc.

HON. LIBRARIAN—WALI MOHAMMAD, M.A., Ph.D., I.E.S.

## TEACHING STAFF

### KING GEORGE'S MEDICAL COLLEGE

*Principal*—Lt.-Col. H. STOTT, O.B.E., M.D., F.R.C.P.,  
D.P.H. Lond., I.M.S.

#### *Anatomy*

Siddiqi, M. A. H., B.Sc., M.S.,  
D.L.O., F.R.C.S. Prof.  
Varma, Capt. R. S., M.B., B.S.  
Panj., F.R.C.S. Edin. Lectr.  
2 Demrs.

#### *Forensic Medicine*

Clyde, Lt.-Col. D., M.D. Glas.,  
D.P.H. Eng., I.M.S. Reader.

#### *Medicine*

Alexander, Capt. R. D., M.A.,  
M.B. Camb., M.R.C.P. Lond.,  
I.M.S. Prof.  
Sahai, H., M.B., B.S. Panj.  
Lectr. and Regr.

#### *Obstetrics and Gynæcology*

Marchant, Miss G. H., M.B., B.S.  
Calc., M.D. Lausanne,  
F.R.C.S. Eng., D.O.M.S.  
Lond. Prof.  
Siret, Miss A., M.B. Calc., L.M.  
Rot., D.G.M. Dub. Lectr.  
Itty, Miss S., M.B., B.S. Lectr.

#### *Ophthalmology*

Misra, C. P., L.M.S. Panj. Prof.  
Srivastava, T. N., M.B., B.S.,  
D.O., M.S. Lectr.

#### *Pathology*

Stott, Lt.-Col. H., O.B.E., M.D.,  
F.R.C.P., D.P.H. Lond.,  
I.M.S. Dean and Prof.  
Hamid, M. A., M.B., B.S. All.  
M.D., M.R.C.P. Lond.

Gupta, S. P., B.Sc., M.D., B.S.  
Reader.  
Lectr.

2 Demrs.

#### *Pharmacology*

Bhatia, B.B., M.D., B.S., M.R.C.P.  
Lond. Reader.  
Sinha, K. N., M.B., B.S. Lectr.  
1 Demr.

#### *Physiology*

Burridge, W., M.A., D.M., B.Ch.  
Ox., L.M.S.S.A. Prof.  
Mathur, S. N., M.B., B.S. All.,  
Ph.D. Lond. Lectr.

2 Demrs.

*Public Health*

Mathur, H. G. D., B.Sc., M.B.,  
B.S. All., M.R.C.P. Edin.,  
D.T.M. & H. Lond., D.P.H.  
J. Hop. Prof.

Mathur, S. N., B.Sc., M.S.,  
F.R.C.S. Eng. Reader.

Prasad, T., F.R.C.S. Edin.,  
D.L.O. Eng., M.B., B.S.  
Lectr. and Regr.

*Radiology*

Ragunandan Lal, Rai-Bahadur,  
M.B., B.S. Panj. Reader.

Pramanick, R. D., B.Sc., M.B.,  
B.S., D.A., R.C.P. & S. Eng.  
Lectr.

*Surgery*

Nigam, K. S., M.D. Alld., F.R.C.S.  
Ed., D.T.M. Lond. Prof.

Goil, R. B., B.Sc. Ben., D.D.S.  
Atl. (Dentistry) Lectr.

CANNING COLLEGE (ARTS AND SCIENCE)

*Principal*—S. B. Smith, M.A. Ox.

*Arabic*

Wahid Mirza, Mohd., M.A. Panj.,  
Ph.D. Lond. Reader.  
Aleem, Abdul, Ph.D. Berlin, B.A.  
Lectr.

*Botany*

Sahni, Birbal, M.A., Sc.D. Camb.,  
D.Sc. Lond., F.R.S., F.G.S.,  
F.A.S.B., Dean, Fac. of Sci.  
Prof.

Dasgupta, S. N., M.Sc. Calc.,  
Ph.D. Lond. Reader.  
Chowdhury, H. P., M.Sc. Panj.,  
D.I.C. Lectr.  
2 Demrs.

*Chemistry*

MacMahon, P. S., M.Sc. Manc.,  
B.Sc. Ox., F.I.C. Prof.  
Sane, S. M., B.A., B.Sc. All., M.A.,  
Ph.D. Berlin. Reader.  
Zaheer, S. H., B.A. Ox., Ph.D.  
Heid. Reader.  
Raman Nayar, M., B.A. Madras,  
A.I.I.Sc. Bangalore Lectr.  
Chatterji, A. C., D.Sc. All., Dr. Ing.  
Berlin Lectr.  
5 Demrs.

*Economics*

[Prof.  
Mukerjee, R. K., M.A., Ph.D. Calc.  
Mukherji, B. B., M.A., B.L. Calc.  
Reader.  
Mukerji, D. P., M.A. Calc. Lectr.

Majumdar, D. N., M.A. Calc. Lectr.  
Saksena, S. P., B.Com., M.A. Lectr.

*English*

Sidhanta, N. K., M.A. Camb. and  
Calc., Dean, Fac. of Arts, Prof.  
Brander, L. R. M., M.A. Edin.

Reader.  
Roy, F. T., M.A. All. and Ox. Lectr.  
Sreshta, R. R., M.A., LL.B. Camb.  
Lectr.

Rao, A. V., M.A. Madr., Ph.D.  
Lond. Temp. Lectr.

Roy, C. G., M.A. All. Lectr.  
Bhattacharya, A. T., M.A. Lectr.  
Ali, Ahmad, M.A. Jr. Lectr.  
Mitra, D., M.A. Jr. Lectr.  
Rustogi, R. S., M.A. Jr. Lectr.

*History, European*

Smith, S. B., M.A. Ox. Prof.  
Dasgupta, S. N., M.A. Lond. Lectr.

*History, Indian*

Mookerji, R. K., M.A., Ph.D.  
Calc. Prof.  
Banerji, S. K., M.A., L.T. All.,  
Ph.D. Lond. Reader.  
Chatterji, C. D., M.A. Calc. Lectr.  
Chatterji, N. L., M.A. All., Ph.D.  
Lectr.

*Mathematics*

[Prof.  
Strang, J. A., M.A., B.Sc. Edin.  
Narayan, L., M.A., D.Sc. All.  
Reader.

Singh, A. N., M.Sc. All., D.Sc. Lectr.  
Calc. Lectr.  
Misra, Ramadhar, M.A. Lectr.

*Modern European Languages*

Iyer, K. A. S., M.A. Lond.  
(French) Lectr.  
Chatterji, A. C., D.Sc. Alld., Dr.  
Ing. Berlin (German) Lectr.

*Persian and Urdu*

Rizavi, Syed M. H., M.A. Reader.  
Fani, Md. A. Q., M.A. All. Lectr.  
Mosvi, Syed Y. H., M.A. Lectr.  
Husain, Syed Mohd., Mulla Fazil,  
M.A., LL.B. All. (Urdu) Lectr.

*Philosophy*

Sen Gupta, N. N., M.A., Ph.D. Harv. Prof.  
Shah, E. A., M.A. All., B.Litt. Ox. Reader.  
Prasad, K., M.A., LL.B. All. Lectr.

*Physics*

Mohammad, Wali, M.A. Panj. and Camb., Ph.D. Gött., I.E.S. Prof.  
Deodhar, D. B., M.Sc. All., Ph.D. Lond., F.P.S., F.Inst.P. Lond. Reader.

Ray, S. N., B.A., M.Sc. All., F.P.S.L., A.Inst.P. Lond. Lectr.  
Mathur, K. N., D.Sc. All. Lectr.  
2 Demrs.

*Political Science*

Ram, V. S., B.A. California, M.A., Ph.D. Harv. Reader.  
Menon, V. K. N., Madr. and Ox. Lectr.  
..... Lectr.  
Sharma, B. M., M.A. All., Ph.D. Lectr.  
Sultan, Mohd., M.A. Jr. Lectr.  
Loomba, A. L., M.A. Jr. Lectr.

*Sanskrit and Hindi*

Iyer, K. A. S., M.A. Lond. Reader.  
Chandrapandey, Kanti, M.A., M.O.L. Panj., Ph.D. Lectr.  
Thakur, A. D., Pt., M.A. All. Lectr.  
Gupta, D. D., M.A. (Hindi) Lectr.

*Zoology*

Bahl, K. N., D.Phil. Ox., D.Sc. Panj. Prof.  
Thapar, G. S., M.Sc. Panj., Ph.D. Lond. Reader.  
Bhatia, M. L., M.Sc. Panj. Lectr.  
2 Demrs.

ISABELLA THOBURN COLLEGE (WOMEN)

*Principal*—Miss Mary E. Shannon, M.A., LL.D.

*Botany*

Oldroyd, Miss R. H., M.A. Kansas State Teacher.

*Chemistry*

Wallace, Miss M., B.A. Minn., M.A. Columbia Reader.  
Mukerjee, L. N., M.Sc. Teacher.

*Economics and Sociology*

Jordan, Mrs. E. L., M.A. Mich. Teacher.

*English*

Roy, Miss Nora, M.A. Reader.  
Dimmitt, Miss M. A., M.A. Wellesley Teacher.  
Dass, Mrs. P. N., B.A. Goucher Coll., M.A. All. Teacher.

*History, European* [Teacher.  
Johnson, Miss S., M.A. Columbia

*History, Indian* [Teacher.  
Chakko, Miss S., M.A. Madr.

<i>Persian</i>	<i>Political Science</i>
Rizavi, Syed M. H., M.A. Lectr.	Manchester, Miss R. C., M.A. Bryn Mawr, Ph.D. Reader.
<i>Philosophy</i>	<i>Sanskrit</i>
Venkataratnam, Miss B., M.A. Mad. Reader.	Srivastava, S. R., M.A. Alld. and Agra, LL.B. Lectr.
Williams, Miss L. V., M.A. Teacher.	<i>Zoology</i> [Teacher. Chandy, Miss Mary, M.Sc. Madr.

#### FACULTY OF COMMERCE

Chatterji, B. N., M.A., B.L. Calc.	(Economics) Dean and Reader.
Dasgupta, B. N., B.A. Calc., A.S.A.A.	(Commerce) Reader.
Gupta, O. P., B.A. Ben., B.Sc. Lond.	(Economics) Lectr.
Pant, D., B.Com. Bom., Ph.D. Dub.	(Commerce) Lectr.
Husain, S. A., Ph.D. Lond., B.Com.	(Commerce) Lectr.

#### FACULTY OF LAW

Gupta, S. K. D., M.A., LL.M. Camb., LL.D. Dub.	Hajela, K. S., M.A., M.Sc., LL.B. All., LL.M. Bom., F.R.A.S. Reader.
Dean and Reader	
Singh, R. U., LL.B. Alld., LL.D. Harv. Reader.	Misra, K. P., M.A. Ox. Reader. Misra, L. S., M.A. Camb., LL.B. Camb. and Dub. Reader.
Chak, J. N., B.A. Ox. Reader.	2 Part-time Lectrs.

#### ORIENTAL DEPARTMENT

Maulvi Mustafa Hasan Alavi ; Maulvi Ali Zainabi ; Maulvi Syed Ali Naqi Naqvi ; Pandit G. C. Avasthi ; Pandit Ghootar Jha Shastri.

#### GENERAL INFORMATION

This residential and teaching Univ. was established under an Act of the Provincial Legislature passed in Nov. 1920. The authorities of the Univ. include a Court, Executive Council, Academic Council, Committee of Reference, and Faculties.

FACULTIES. Arts, Science, Medicine, Law, Commerce.

LIBRARY. 62,885 vols. (including K.G.M.C. and Bonarjee Library).

ADMISSION. Qualifications for Degree courses: Arts or Science—the Intermediate Examn. of an Indian Univ. or of the Board of High School and Intermediate Education, U.P., or of Rajputana (incl. Ajmeer-Merwara), Central India, and Gwalior, or of the Board of Intermediate and Sec. Education, Dacca, and the Cambridge Higher School Certificate Examn.—Certificate "A"; Law—Degree in Arts or Science; Commerce—Commerce Diploma Certif. of the Panjab, or the Intermediate Examn. in Commerce of the Board of High School and Interm. Education, U.P., or of Rajputana (incl. Ajmeer-Merwara), Central India, and Gwalior, or the Interm. Examn. in Arts (Group B—Special) of the Delhi Univ. or Interm. Examn. in Group E of the Board of Interm. and Secondary Education, Dacca; the Interm. Examn. of Andhra Univ.,

in 3 Commercial subjects ; Intern. or B.A. Examn. of any recognized Univ., with Economics ; Part I. of the Associate Examn. of the Indian Institute of Bankers after passing Intern. Examn. Med.—Degree in Science of Agra or Aligarh, ALL, Benares, Bom., Calc., Dacca, Delhi, Mad., Mys., Nagpur, Panj., Patna, or Rangoon taken with Chem. and Biol. and optional subjects, or, subject to certain conditions, the Intern. Examn. of Alig., Benares, Intern. Board of Ed., U.P., or of Rajputana, Central India, and Gwalior.

DEGREES. B.A. Pass, 2 yrs. ; B.A. Hons., 3 yrs. ; M.A., 2 yrs. after B.A. (or after B.A. Hons., 1 yr.) ; Ph.D., after 2 yrs.' research ; D.Litt., 5 yrs. after having taken Ph.D. ; also Honorary. B.Sc. Pass, 2 yrs. ; B.Sc. Hons., 3 yrs. ; M.Sc., 2 yrs. (or after B.Sc. Hons., 1 yr.) ; Ph.D., after 2 yrs.' research ; D.Sc., 5 yrs. after having taken Ph.D. ; also Honorary. LL.B., 2 yrs. after B.A. or B.Sc. or other specified degree ; LL.M., 2 yrs. after LL.B. ; LL.D., 5 yrs. after LL.M. M.B., B.S., 5 yrs. ; M.D., M.S., 3 yrs. after M.B., B.S. ; B.Com., 2 yrs. The lectures are supplemented by tutorial work.

DIPLOMAS AND CERTIFICATES. Diplomas are granted in Public Health, Teaching, Arabic, Persian, and Sanskrit. Certificates of Proficiency in French and German are also granted.

FEEs for tuition for full course : B.A., Pass, or B.Com., Rs. 216 ; M.A., Rs. 270 ; M.B., B.S., Rs. 650 ; D.P.H., Rs. 340 ; B.Sc. Pass, Rs. 252 ; B.A. Honours, Rs. 324 ; B.Sc. Honours, Rs. 378 ; M.Sc., Rs. 150 (for 1 yr.'s course) or Rs. 300 (for 2 yrs.' course) ; LL.B., Rs. 290 ; D.Sc., Rs. 675 ; Ph.D., Rs. 300.

RESIDENCE. Students are required, unless specially exempted, to live in hostels, King George's Medical Coll. and Canning Coll. for men ; Isabella Thoburn Coll. for women. There is also a Univ. Hostel for women students attached to Canning Coll.

ADULT EDUCATION. A system of public lectures by members of the staff and others is in force.

FINANCE. The University received a grant of Rs. 12,41,109 from the Provincial revenues, including grants for the King George's Hospital and the Queen Mary's Hospital maintained in connexion with the King George's Medical College. The other income of the University consists of interest on endowments and subscriptions, plus fees. The total income of the University was Rs. 18,32,994.

PUBLICATIONS. *Calendar* ; *Prospectus* ; *Annual Report* ; *Quinquennial Report of Research Work*.

## THE YEAR 1936-37

BENEFACTIONS. Organizing Secretary, Red Cross Society, Rs. 1000 for Queen Mary's Hospital ; Dr. V. S. Ram, Rs. 1040 to endow a gold medal ; Mr. Raj Nath Gurtu, 14 Tata Hydro Electric shares of face value, Rs. 2590 and Rs. 500 cash to endow three gold medals ; Mr. Purshottam Gand and Swami Shiva Charan Giri, Sanskrit books ; Pt. Rameshwar Nath Zadu, five Sharda manuscripts ; Mr. Ram Sahai Nigam, 3½ per cent Govt. paper of face value, Rs. 1000 to endow a gold medal ; Taluqdars of Oudh, Rs. 2750.

NEW BUILDINGS. Bungalow for Professor of Obstet. and Gynæcol., Rs. 20,000 ; Extension of Nurses' Quarters under construction, estimated cost, Rs. 1,25,000 ; Univ. Library building under construction, estimated cost, Rs. 2½ lacs ; Students' Union building under construction, estimated cost, Rs. 30,000.

**CHANGES IN REGULATIONS.** Number of papers for LL.B. examn. raised from 12 to 14, additional papers being on Mercantile Law and Law of Conveyance. Ordinances relating to LL.D. examn. revised and amplified. Provision made for teachers to appear privately at proficiency examn. in French. Students who pass Intermediate Examn. in Arts now eligible under certain conditions for admission to Faculty of Commerce.

**EXTRA-MURAL WORK.** A number of lectures on topics such as "The System of the Universe," "Lineage of Man," "Race Origins and Differentiation," "The Numerical Balance of Castes and Communities" delivered.

**VISITS OF TEACHERS FROM OTHER UNIVERSITIES.** Prof. Joseph B. Niderl, Ph.D. (New York Univ.), lectured on "Micro-Chemistry," and Mrs. H. M. Boulnois of South Africa, on "Mystic India."

**VISITS OF TEACHERS TO OTHER UNIVERSITIES.** Lectures were delivered by Dr. Radha Kamal Mukerjee (Head of Dept. of Econ. and Sociol.), at Dacca and Calcutta Univs.; by Prof. N. K. Sidhanta (Head of Dept. of English) at Agra Univ. and by Prof. B. Sahni (Head of Dept. of Botany) at the Punjab, Osmania, and Benares Hindu Universities. Dr. G. S. Thapar (Reader in Zoology) presided over Zoology Section of Indian Science Congress. Dr. Radha Kumud Mukerji, Head of Dept. of Indian Hist., presided over History Section of All-India Oriental Conference. Dr. Wali Mohammad, Head of Dept. of Physics and Lt.-Col. H. Stott, I.M.S., Dean, Fac. of Medicine and Head of Dept. of Pathol., attended as delegates of the Univ. the centenary celebrations of London Univ.; Mr. S. N. Dasgupta attended as delegate the Fourth Anglo-American Conference of Historians at London and Dr. A. N. Singh attended the Internat. Congress of Mathematicians at Oslo.

**RETIREMENTS.** Rai Bahadur Dr. B. N. Vyas (Pharmacol.); Pt. Badri Nath Shastri (Sanskrit).

**RESIGNATIONS.** Moulvi Khalil Ibn Mohd. Arab (Arabic); Syed Amir Ali (English); Dr. (Mrs.) Muriel Brander (Obstet. and Gynæcol.); C. N. Chak (Maths.), on apptmt. as Prof. of Education at the Secondary Training College, Bombay.

**DEATHS.** Rai Bahadur Dr. G. N. Chakravarti, Ex-Vice-Chancellor; Maharani Surat Kuar of Khairgarh and Rai Saheb Bhaiya Kandhai, Prasad Tandon members of Court.

**HONORARY DEGREES.** *D.Litt.*—Sir Jwala Prasad Srivastava, M.Sc., A.M.S.T. and Rai Rajeshwar Bali, O.B.E., B.A., Ex. Ministers of Education, United Provinces.

**STUDENTS.** 2330, including 915 graduates.

**DEGREES (1937).** B.A. (Pass), 230; B.A. (Hons.), 38; M.A., 152; LL.B., 254; B.Sc. (Pass), 66; B.Sc. (Hons.), 5; M.Sc., 49; M.B., B.S., 21; B.Com., 24.

**DIPLOMAS AND CERTIFICATES.** Diploma in Teaching, 9; in Arabic, 18; in Persian, 26; in Sanskrit, 6. Certificate in French, 6; in German, 8.



# UNIVERSITY OF MADRAS

Founded 1857

*Address*—Senate House, Triplicane P.O., Madras.

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION.

VICE-CHANCELLOR—DIWAN BAHADUR S. E. RUNGANADHAN, M.A., L.T.

REGISTRAR—WILLIAM MCLEAN, M.A., B.L. Glas., Chartered Secretary,  
J.P.

LIBRARIAN—RAO SAHIB S. R. RANGANATHAN, M.A., L.T., F.L.A.

## TEACHING STAFF

<i>Biochemistry</i>	Dikshitar, V. R. R., M.A., Dip. Econ. Lectr.
Damodaran, M., M.A., D.Sc. Lond. D.I.C. Prof.	<i>Indian Music</i>
<i>Botany</i>	Sambamurti, P., B.A., B.L. Lectr.
Parthasarathi Ayyangar, M. O., M.A., Ph.D. Lond. Prof.	<i>Indian Philosophy</i>
<i>Geography</i>	Suryanarayanasastry, S. S., M.A., B.Sc. Ox. Reader.
Kuriyan, G., B.Sc. Lond., B.A. Lectr.	<i>Mathematics</i>
<i>Indian Economics</i>	Vaidyanathaswami, R., M.A., D.Sc. Lond., Ph.D. Edin. Reader.
Thomas, P. J., M.A., B.Litt. Ox., Ph.D. Lond. Prof.	<i>Politics and Public Administra- tion</i>
Lokanathan, P. S., M.A., D.Sc. (Econ.) Lond. Reader.	Asirvadam, E., B.D. Hartf., Ph.D. Edin., B.A. Reader.
Ramakrishnan, K. C., M.A., Dip. Econ. Lectr.	<i>Statistics</i>
<i>Indian History and Archæology</i>	Sundaramasastri, N., M.A., M.Sc. Lectr.
Nilakantasastri, K. A., M.A. Prof.	<i>Zoology</i>
Venkataramanayya, N., M.A., Ph.D. Reader.	Gopalayyar, R., M.A., M.Sc. Liv., L.T. Prof.

## ORIENTAL RESEARCH INSTITUTE

(3 Sections—*Sanskritic, Dravidian and Islamic*).

<i>Sanskrit</i>	[Reader.	<i>Tamil</i>	[Reader.
Raja, C. K., B.A., D.Phil. Ox.		Vaiyapuripillai, S., B.A., B.L.	
Chintamani, T. R., M.A., Ph.D.		Sethupillai, R. P., B.A., B.L.	
	Senr. Lectr.		Senr. Lectr.
Sastri, S. K. R.	Junr. Lectr.	Reddiyar, V. V., Vidvan	Junr. Lectr.

<i>Telugu</i>	[Senr. Lectr.	Seshaayyengar, H., Vidvan	
Ramakrishnayya, K., M.A.			Junr. Lectr.
Lakshmipatisastri, S.	Junr. Lectr.		
<i>Malayalam</i>		<i>Arabic, Persian, and Urdu</i>	
Menon, C. A., B.A.	Senr. Lectr.	Nainar, Md. H., M.A. Aligarh,	
Nayar, P. K.	Junr. Lectr.	LL.B. (Arabic)	Senr. Lectr.
<i>Kanarese</i>		Junr. Lectrs. :	
Chennakesavaayyengar, H.,		Eushaw, Syed, B.A. (Persian).	
M.O.L.	Senr. Lectr.	Siddiqi, Md. H. M. (Urdu).	

## CONSTITUENT HONOURS COLLEGES

MADRAS, *Loyola College*. (Recognized in Hons. Courses in Econ., Maths.). Principal—Rev. L. Vion, S.J. Profs. and Lecturers : *Econ. and Hist.*—Rev. F. Basenach, S.J., B.Sc. Lond. ; T. S. Subrahmanyayyar, M.A. ; A. Appadurai, M.A., Ph.D. ; L. N. Govindarajan, M.A. *English*—Rev. C. Leigh, S.J. ; Rev. L. D. Murphy, S. J., M.A. Ox. ; N. Balakrishnan, M.A. ; K. Subrahmanyam, M.A. *French*—Rev. A. Saulière ; Rev. G. I. Gross. *Maths.*—Rev. L. Vion, S.J., L. ès Sc. Paris ; N. S. Ayyar, M.A. ; K. S. A. Ayyar, M.A. ; T. R. Raghava Sastri, M.A. ; S. N. Ayyar, B.A. *Sanskrit*—A. S. Krishna Rao, M.A. *Physics*—V. Somasundaram, M.A. ; K. R. Pisharoti, M.A. 31 other Teachers.

MADRAS, *Pachaiyappa's College*. (Recognized in Hons. Courses in Econ., Hist., Philos.) Principal—P. N. Srinivasachari, M.A. Profs. : *Chem.*—K. Suryanarayana, B.A. *Econ.*—E. S. A. Ayyar, M.A. ; C. D. Rajeswaran. *English*—R. Krishnamurti, M.A. ; V. Tiruvengkataswami, M.A. ; P. Mahadavan, M.A. *Hist.*—T. R. S. Ayyangar, M.A. ; T. K. Venkataraman, M.A. *Indian Langs. : Tamil*—M. K. Mudaliyar, B.A. *Telugu*—M. Ramanuja Rao Naidu, M.A. *Sanskrit*—A. S. Mudaliyar, M.A. *Maths.*—K. Srinimalu, M.A. *Philos.*—P. N. Srinivasachari, M.A. ; T. M. P. Mahadevan, M.A., Ph.D. *Physics*—K. A. Naidu, B.A., B.L., L.T. ; R. N. Selvam, M.A. 24 other Teachers.

MADRAS, *Presidency College*. (Recognized in Hons. Courses in Bot., Chem., Econ., English Lang. and Lit., Geol., Hist., Maths., Philos., Physics, Sanskrit Lang. and Lit., Zool.) Principal—H. C. Papworth, M.A. Profs. : *Bot.*—T. Ekambaram, Ph.D. Lond., M.A., L.T. *Chem.*—B. B. Dey, M.Sc. Calc., D.Sc. Lond. ; G. Sambamurti, M.A., L.T. *Econ.*—P. P. Kallukaran, M.A., B.Sc., Ph.D. Lond. *English*—The Principal ; V. K. A. Pillai, B.A. Ox., M.A. ; K. Swaminathan, B.A. Ox., M.A. ; M. R. R. Ayyangar, M.A., L.T. *Geol.*—C. K. K. Pillai, M.Sc. Lond., M.A., L.T., D.I.C. *Hist.*—J. Franco, M.A., L.T. ; S. V. Venkateswarayyar, M.A., L.T. *Maths.*—K. A. Rao, B.A. Camb., M.A. ; T. Suryanarayana, B.A. Camb. *Physics*—H. Paramesvaran, D.Sc. Lond., M.A., Ph.D., F.I.P. ; P. S. Subrahmanyayyar, M.A., L.T. *Sanskrit*—P. P. S. Sastri, B.A. Ox., M.A. *Zool.*—S. G. Manavalaramanujam, Ph.D. Lond., M.A., D.I.C. ; A. R. Pillai, M.A., L.T. 47 other Teachers.

## AFFILIATED HONOURS COLLEGES

HYDERABAD, *Nizam College*. (Affiliated in Hons. Courses in Econ. and Hist.). Principal—W. Turner, M.A. Edin. Profs. : *Arabic*—Zahid Ali, D.Phil. Ox., B.A. *Chem.*—Kazi Syed Moinuddin, M.Sc., Ph.D. Lond. ; P. Ram Rao, M.A. *Econ.*—Q. Hussain, M.A. *Engl.*—The Principal. *Hist.*—S. H. Rao, M.A., L.T. *Maths.*—R. Krishnamurti, M.A. *Persian*—Ghulam Dastagir

Rashead, M.A. *Physics*.—J. C. K. Rao, D.Sc. Calc. ; Syed Muhd. Ali Khan, B.A., B.Sc., A.R.C.S. Lond. 19 other Teachers.

TAMBARAM, *Christian College*. (Recognized in Hons. Courses in English Lang. and Lit., Hist. and Econ., Maths., Philos., Physics and Zool.) Principal—Rev. A. G. Hogg, M.A., D.Litt. Edin., D.D. Vice-Principal—Rev. J. R. Macphail, M.A. Glas. ; E. J. Bingle, M.A. Ox., Bursar. Profs.: *Bot.*—M. S. Sabhesan, M.A. *Chem.*—E. Barnes, B.Sc. Lond. *English Lang. and Lit.*—Rev. A. J. Boyd, M.A. ; Rev. G. Matthews, M.A. Ox., B.Litt. ; Rev. J. R. Macphail, M.A. Glas. ; G. C. Martin, M.A. Edin. ; Rev. R. S. Macnicol, M.A. St. And. *Hist.*—E. J. Bingle, M.A. Ox. ; S. S. Ayyar, M.A. *Maths.*—W. F. Kibble, B.A. Camb. ; M. M. Thomas, M.A. ; L. N. S. Ayyar, M.A. *Philos.*—Rev. A. G. Hogg, M.A., D.Litt., D.D. ; K. G. Ramarao, M.A., Ph.D. Lond. ; S. Samuel, M.A. *Physics*—J. P. Manikkam, M.A. ; A. V. Moses, Ph.D. Liv., M.A. ; Rev. T. G. Platten, M.A. Camb. *Zool.*—C. Lakshminarayanan, M.A. 40 other Teachers.

TRICHINOPOLY, *St. Joseph's College*. (Affiliated in Hons. Courses in Econ., Hist., Maths., Physics.) Principal—Rev. J. D'Souza, S.J., B.A. Profs.: *Botany*—Rev. A. Rapinat, S.J. *Chem.*—Rev. A. Haas, S.J. *English*—Rev. J. D'Souza, S.J. ; K. Chinnaswamiayyar, M.A. *French*—Rev. J. Bourdot, S.J. *Hist. and Econ.*—Rev. P. Carty, S.J., B.Sc. Lond. ; Rev. A. Steenkiste, S.J. ; *Logic*—Rev. V. Allard, S.J. *Maths.*—Rev. C. Pruvot, S.J. *Physics*—P. E. S. Ayyar, M.A. 44 other Teachers.

TRIVANDRUM, *Maharaja's College of Arts*. (Affiliated in Hons. Courses in English Lang. and Lit., Hist. and Malayalam.) Principal—A. G. Menon, M.A., B.Com. Lond. Profs.: *English*—P. G. S. Ayyar, M.A. ; E. T. Thomas, M.A., L.T., A. S. Ayyar, M.A., Ph.D. Lond. *Hist. and Econ.*—The Principal ; Miss L. C. M. Ouwerkerk, B.A. Camb. ; T. M. Krishnamachari, M.A., B.L. ; N. S. Narasimhaayyengar, M.A., B.L. *Oriental Langs., Malayalam and Sanskrit*—V. K. Tampi, B.A. ; N. K. Pillai, M.A. *Philos.*—P. Narasimhayya, M.A., Ph.D. 23 other Teachers.

TRIVANDRUM, *Maharaja's College of Science*. (Affiliated in Hons. Courses in Maths.) Principal—K. L. Moudgill, M.A. Camb., D.Sc. Glas., F.I.C. (seconded) ; R. Srinivasan, M.A. (Actg.). Profs.: *Botany*—T. K. Koshy, M.A., Ph.D. Lond. *Chem.*—K. L. Moudgill, M.A. Camb., D.Sc. Glas., F.I.C. Lond. (seconded) ; K. R. Krishnaayyar, M.A. (Actg.). *English*—G. G. Ayyar, M.A. *Maths.*—R. Srinivasan, M.A. ; H. Subrahmanyam, M.A., Ph.D. *Physics*—V. S. Ayyar, M.A. *Zool.*—K. S. P. Ayyar, M.A., L.T., D.Sc. ; J. E. Cheladurai, M.A. 39 other Teachers.

## CONSTITUENT FIRST GRADE COLLEGES

MADRAS, *Government Muhammedan College*. Principal—Muhd. Abdul Hamid, M.B.E., M.A. Ox. 3 Profs., 14 other Teachers.

MADRAS, *Queen Mary's College for Women*. Principal—Miss K. Myers, M.A. 8 Profs., 20 other Teachers.

MADRAS, *Women's Christian College*. Principal—Miss E. McDougall, M.A., D.Litt. 6 Profs., 19 other Teachers.

## AFFILIATED FIRST GRADE COLLEGES

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ANANTAPUR, *Ceded District College*. Principal—T. B. Krishnaswami-Mudaliyar, M.A., B.L. (Acting). 26 other Teachers.

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CHANGANACHERRY, *St. Berchmans' College*. Principal—Rev. I. C. Romeo Thomas, M.A., L.T. 33 other Teachers.

ERNAKULAM, *Maharaja's College*. Principal—H. R. Mills, M.Sc. Lond. 48 other Teachers.

ERNAKULAM, *St. Teresa's College*. Principal—Sister M. Beatrice, M.A. Edin., L.T. 13 other Teachers.

KUMBAKONAM, *Government College*. Principal—A. Chakravarti, M.A., L.T. 21 other Teachers.

MADANAPALLE, *Theosophical College*. Principal—J. H. Cousins, D.Litt. (on leave); D. Gurumurti, M.A., Ph.D. (Actg.). 16 other Teachers.

MADURA, *American College*. Principal—E. M. Flint, M.A., B.Sc. (on leave); A. Ranjutham, M.A., L.T. (acting). 40 other Teachers.

MADURA, *Madura College*. Principal—V. R. Venkataraman, M.A. 18 other Teachers.

MANGALORE, *St. Agnes College*. Principal—Sister M. Theodosia, A.C., B.A. 13 other Teachers.

MANGALORE, *St. Aloysius' College*. Principal—Rev. T. Gonsalves, S.J., B.A., D.D. 33 other Teachers.

PALAMCOTTAH, *St. Xavier's College*. Principal—Rev. A. Bonhoure, S.J. Ph.D. Greg. 26 other Teachers.

PALGHAT, *Government Victoria College*. Principal—S. R. U. Savoor, B.A., D.Sc. Lond. 19 other Teachers.

TINNEVELLY, *Hindu College*. Principal—Alex. Gnanamuttu, M.A. 13 other Teachers.

TRICHINOPOLY, *Holy Cross College*. Principal—Sister Sophie, B.C. 16 other Teachers.

TRICHINOPOLY, *National College*. Principal—V. S. Ayyangar, M.A. 19 other Teachers.

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## AFFILIATED SECOND GRADE COLLEGES

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CALICUT, *Malabar Christian College*. Principal—Rev. Th. Lorch, Dr. rer. pol. Tübingen. 11 other Teachers.

CALICUT, *Zamorin's College*. Principal—A. V. K. K. Menon, M.A., B.L., L.T. 12 other Teachers.

COIMBATORE, *Government College*. Principal—T. K. Duraiswamiayyar, M.A., L.T. 11 other Teachers.

KOTTAYAM, *C.M.S. College*. Principal—C. K. Thomas, B.A., L.T. 16 other Teachers.

MANGALORE, *Government College*. Principal—P. Narayana Gowd, B.Sc. Ox., M.A. 12 other Teachers.

NAGERCOIL, *Scott Christian College*. Principal—G. H. Marsden, M.A. 13 other Teachers.

PALAMCOTTAH, *St. John's College*. Principal—Rev. G. T. Selwyn, M.A. 8 other Teachers.

PALAMCOTTAH, *Sarah Tucker College*. Principal—Miss A. Lindsey, B.Sc. Lond. 6 other Teachers.

PUDOKOTTAI, *Maharaja's College*. Principal—Rao Sahib N. T. Ayyar, M.A., L.T. 12 other Teachers.

SALEM, *Salem College*. Principal—A. R. Goundar, M.A., L.T. 8 other Teachers.

TELLICHERRY, *Government Brennen College*. Principal—T. M. K. Nedun-  
gadi, M.A., L.T. 11 other Teachers.

TRIVANDRUM, *Maharaja's College for Women*. Principal—Miss Anna  
Nidiry, M.A. 19 other Teachers.

VANIYAMBADI, *Islamiyah College*. Principal—Ahmed Ali, M.A., L.T. 7  
other Teachers.

VELLORE, *Elizabeth R. Voorhees College*. Principal—Rev. J. J. De Boer,  
M.A., Ph.D. Columbia. 14 other Teachers.

## CONSTITUENT PROFESSIONAL COLLEGES

### Engineering

GUINDY, *College of Engineering*. Principal—K. C. Chakko, B.A., D.Sc. Lond., M.I.E. Ind. Profs. : *Civil Eng.*—K. S. Sitaraman, B.A., B.E. ; V. H. Sadarangini, B.E., B.Sc. *Electr. Eng.*—J. J. Rudra, M.A., Ph.D., A.I.I.Sc. ; P. Subbarao, B.A. *Maths.*—C. N. Ganapatiayyar, M.A., L.T. *Mech. Eng.*—A. Viswanathar, M.Sc. Lond., A.C.G.I., D.I.C. ; S. Paul, B.E. 36 other Assts. (Instructors, Workshop Assts.).

### Law

MADRAS, *Law College*. Principal—K. Krishna Menon, M.A. Ox., LL.B. Lond., B.C.L. Vice-Principal : S. Govindarajulu, B.A. Camb., B.L., LL.B. Camb. Prof. : K. V. V. Ayyar, B.A., M.L. Other Lectrs. : T. S. V. Ayyar, M.A., M.L. ; B. Lakkapparai, B.A., B.L. ; Hamid Ali, M.A., D.C.L. ; G. R. Rao, B.A., B.L.

### Medicine

MADRAS, *Medical College*. Principal—Lt.-Col. C. M. Plumtre, I.M.S., M.R.C.S., L.R.C.P., F.R.C.S. Edin. Profs. and Teachers : *Anæsthesia*—P. V. Francis. *Anat.*—P. K. Koshy, B.A., M.B., B.S., F.R.C.P. *Bact.*—S. Ramakrishnan, L.M.S., L.R.C.P.S., D.T.M. & H. *Bio-Chem.*—A. S. Mannadinayar, M.B., N.S., Ph.D. *Biol.*—P. J. Sundarrao, M.A. *Chem.*—S. R. Nayudu, B.A., M.B., B.S., M.Sc. Lond., D.I.C., F.I.C. *Dent. Surg.*—J. B. Chenoy, L.D.S., R.C.S. *Dermatol.*—S. Thambayya, B.A., L.M.E.S., L.R.C.P. & S., M.R.C.P., D.T.M. & H. *Ear, Nose, and Throat*—P. V. Cherian, M.B., B.S., F.R.F.P.S. Glas., F.R.C.S., D.L.O. *Hyg.*—R. Adiseshan, L.R.C.P.S., L.R.F.P. & S., D.P.H. *Infec. Dis.*—G. Srinivasan, B.A., M.B., B.S., B.Sc. *Med. Jurisp.*—A. S. Naidu, B.A., M.D., B.Sc. *Med.*—M. R. G. Mudaliyar, B.A., M.D., C.M. ; Lt.-Col. G. R. McRobert, M.D. Aberd., D.T.M. & H., I.M.S. ; *Mental Dis.*—S. Venkatasubbarao, M.D., D.P.M. (Eng.). *Obst., Gynæc., and Dis. of Children*—Lt.-Col. C. M. Plumtre, I.M.S. ; Rao Bahadur A. L. Mudaliyer, B.A., M.D., F.C.O.G. *Ophthalmol.*—Lt.-Col. P. Verdon, I.M.S. ; K. K. Nayar.

*Pathol.*—Rao Bahadur T. S. Tirumurti, B.A., M.B., C.M., D.T.M. & H. ; A. Vasudevan, M.B., B.S. *Pharmacol.*—J. C. David, M.B., B.S., Ph.D. Edin. *Physics*—C. V. Ayyar, M.A., L.T. *Physiol.*—B. T. Krishnan, B.A., M.B., B.S., M.Sc. *Radiol.*—M. J. S. Pillai, L.M.S., L.R.C.P., L.R.F.P. & S., D.R.M.K. ; C. Totadri. *Surg.*—Lt.-Col. M. M. Cruickshank, F.R.C.S., I.M.S. *Surg., Princ. and Pract. of*—N. Mangeshrao, M.B., C.M., F.R.C.S., F.R.C.P.S.I. *Tuberculosis*—K. V. Rao, M.D. *Vaccin.*—C. S. G. Pillai, M.B., C.M., L.R.C.P. & S., D.P.H. Edin. 53 Assistants.

### Teaching

MADRAS, *Lady Willingdon Training College.* Principal—Miss J. M. Gerrard, M.A. Other Profs.: Miss L. Philipsz, M.A., L.T.; Miss V. Koman, M.A.; Miss E. Lazarus, B.A., L.T.; Sr. R. S. Subhalakshmi, B.A., L.T. 6 other Teachers.

MADRAS, *St. Christopher's Training College.* Principal—Miss K. N. Brockway, M.A. Camb. Other Profs.: Miss M. Mathew, M.A.; Miss H. T. Scudder, M.A., L.T. Tor. 6 other Teachers.

SAIDAPET, *Teachers' College.* Principal—N. R. Krishnamma, M.A. Camb. (Acting). Other Profs.: S. B. Ayyar, B.A., L.T.; C. N. E. Mudaliyar, M.A., L.T.; N. S. Ayyar, M.A., L.T.; K. R. G. Reddiar, M.A.; T. S. Singh, M.A., M.Sc., L.T.; K. C. Viraraghavaayyar, M.A., L.T. 2 Asst Lecturers.

### Veterinary

MADRAS, *Madras Veterinary College* (B.V.Sc.) Principal—T. J. Hurley, M.R.C.V.S., D.V.S.M. (on leave); Rao Sahib K. Kailasamayyar, G.B.V.C. (Acting). *Anat.*—H. N. Chelvaayyengar, G.M.V.C. *Hygiene*—M. R. V. Panikkar, B.Sc., M.R.C.V.S. *Medicine*—Principal; *Parasitol.*—M. Anantanarayanarao, G.M.V.C. *Pathology and Bacteriology*—E. O. Longley, B.Sc. Lond., M.R.C.V.S. *Physiol.*—M. A. Rangaswamiayyar, B.A., G.M.V.C. *Pharmacol.*—M. Sundaranathan, G.M.V.C. *Surg.*—K. S. Nayar, G.B.V.C., M.R.C.V.S. (on leave); R. Swaminathan, B.A. (Actg.). 10 Asst. Lecturers.

## AFFILIATED PROFESSIONAL COLLEGES

### Agriculture

COIMBATORE, *Agricultural College.* Principal—R. C. Broadfoot, N.D.A. C.D.A. *Agric.*—M. U. Vellodi, L.Ag. *Botany*—P. S. Jivannarao, M.A. *Chem.*—H. Shivarao, B.Sc., A.I.C. *Engin.*—B. M. L. Mudaliyar, B.E.; C. Narasimhaayyengar. *Hygiene*—P. S. Kuppuswamiayyar, G.M.V.C. *Biol.*—J. A. Muliyl, B.A., Ph.D. Dublin. 10 Lecturers.

### Law

TRIVANDRUM, *Maharaja's Law College.* Principal—K. P. Padmanabhapillai, B.A., LL.B. Camb. Professors: H. Ganapatiayyar, M.A., M.L.; K. Narayanan, B.A., B.L. 3 Lecturers.

### Teaching

TRIVANDRUM, *Training College.* Principal—A. N. Tampi, B.A. Ox., Dip. Educn. Professors: D. Jivanayakam, M.A., Ph.D. Columbia; T. Y. Harris, M.A., L.T.; A. Chummar, M.A., L.T.; N. Kuppuswamiayyengar, M.A., L.T.; K. Sankaranarayanayyar, M.A., L.T. 3 other Teachers.

## APPROVED INSTITUTIONS

## Oriental Learning

Two Institutions in Madras and 18 in other towns are recognized as qualified to provide instruction for the Oriental Titles.

## GENERAL INFORMATION

This Univ., founded in 1857, was reorganized in 1923 as a Teaching and Residential Univ., and it continues to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the Univ. include a Senate, Syndicate, Academic Council, Faculties, and Boards of Studies.

Laboratories for research in Zool., Bot., and Biochem. are provided. There are also Depts. of study and research in the following subjects: Indian Hist. and Archæol., Indian Econ., Indian Philos., Maths., Statistics, Geog. and Politics and Public Administration.

**FACULTIES.** Arts, Science, Law, Medicine, Engineering, Teaching, Agriculture, Vet. Science, Commerce, Oriental Learning, and Fine Arts.

**ADMISSION.** The minimum qualification for entrance to Univ. other than Professional Courses is the Matricn. examn. and such other examn. held under the auspices of a Univ. or Public Body as are recognized by the Univ. Also the certificate issued under the S.S.L.C. Scheme in accordance with rules framed by the Univ.

**DEGREES.** B.A., B.A. (Hons.), M.A., M.Litt., D.Litt.; B.L., M.L., LL.D.; B.Sc., B.Sc. (Hons.), M.Sc., D.Sc.; B.E.; B.Com.; B.Sc.(Ag.); B.V.Sc.; M.B., B.S., M.D., M.S., B.S.Sc. (San. Sci.); B.O.L., M.O.L.; L.T.

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**ORIENTAL TITLES.** Siromani, Vidvan, Afzal-ul-Ulama, Munshi-i-Fazil, Abidi-i-Fazil, Tabih-i-Kamil, Afzal-ul-Attibba, Malpan and Soppar.

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**PUBLICATIONS.** *Calendar* (July)—vol. i., Administration, Statutes, Ordinances and Regns., Syllabuses; vol. ii., Constituent and Affil. Colls.,

Endowments, Graduates ; *Annual Report* ; *Minutes* ; *Madras Univ. Magazine* , *Annals of Oriental Research* ; *Tamil Lexicon* (6 vols. published).

## THE YEAR 1936-37

**BENEFACTIONS.** An endowment (value, Rs. 35,000) for founding a Prize—King George V. Memorial Tamil Prize.

**NEW BUILDINGS.** New Univ. and Departmental buildings, Botany Laboratory and Examination Hall completed and occupied.

**NEW DEPARTMENTS AND POSTS.** Department of Politics and Public Administration (Diploma Course) instituted and post of Reader also created.

**OTHER DEVELOPMENTS.** Proposals for institution of an Employment Bureau under consideration.

**CHANGES IN REGULATIONS.** Regulations governing Matriculation, Intermediate Examn. in Arts and Science, B.A., B.Sc., B.A. (Hons.), B.Sc. (Hons.) and M.A. Degree Examns. all revised. Regulations for B.O.L. Degree, Diploma in Indian Music and Diploma in Politics and Public Administration framed.

**RETIREMENT.** Vidvan K. Varadachariyar, Lectr. in Indian Music, from June 30, 1937.

**STUDENTS.** Full-time : 15,750. Part-time : 96.

**DEGREES.** B.A., 1244 ; B.A. (Hons.), 138 ; M.A., 44 ; Ph.D., 1 ; B.L., 82 ; M.L., 8 ; B.Sc., 136 ; B.Sc. (Hons.), 35 ; M.Sc., 8 ; D.Sc., 3 ; L.M. & S., 2 ; M.B. & B.S., 71 ; B.S.Sc., 2 ; M.S., 1 ; M.D., 1 ; L.T., 68 ; B.E., 61 ; B.Sc. (Ag.), 21.

**ORIENTAL TITLES.** Titles in Oriental Learning—Siromani, 59 ; Vidvan, 133 ; Afzal-ul-ulama, 9 ; Munshi-i-Fazil, 11.

**DIPLOMAS.** In Economics, 3 ; in Geography, 7 ; in Indian Music, 9 ; in French and German, 8 ; in Midwifery, 5.



# UNIVERSITY OF MYSORE

Founded 1916

CHANCELLOR—HIS HIGHNESS MAHARAJA SRI KRISHNARAJA WADIYAR  
BAHADUR OF MYSORE, G.C.S.I., G.B.E.

PRO-CHANCELLOR—HIS HIGHNESS SRI KANTIRAVA NARASIMHARAJA  
WADIYAR BAHADUR, G.C.I.E., Yuvaraja of Mysore.

VICE-CHANCELLOR—N. S. SUBBA RAO, M.A. Camb.

REGISTRAR—V. GOPALASWAMIENGAR, M.A.

LIBRARIAN—A. N. NARASIMHAIA, Ph.D. Lond., M.A., L.T.

(U.) = Univ. Professor.

## TEACHING STAFF

### *Archæology*

Krishna, M. H., M.A., D.Lit. Lond.  
Director.

Das, J. P., M.Sc. (Electr. E.) Prof.  
5 Asst. Profs., 2 Lectrs., 8 Instrs.,  
3 Lab. Assts., 1 Foreman.

### *Botany*

Sampatkumaran, M.A., Ph.D.,  
S.M. Chic. Prof. (U.).  
2 Asst. Profs., 7 Lectrs., 3 Demrs.

### *English*

Mackintosh, A. B., M.A. Ox. and  
St. And. (Principal, Central  
Coll.) Prof. (U.).  
Rollo, J. C., B.A. Ox., M.A. Glas.,  
J.P. (Principal, Maharaja's  
College) Prof. (U.).  
..... Prof. (U.).  
Srikantia, B. M., M.A., B.L.  
Prof. (U.).

### *Chemistry*

Sanjivarao, B., M.A., Ph.D. Lond.  
Prof.  
Manjunath, B. L., M.Sc. Lond.,  
D.Phil. Ox. Prof.  
Srikantia, C., B.A., D.Sc. Zürich  
Prof.  
4 Asst. Profs., 15 Lectrs., 5 Demrs.

### *Education*

Siddalingiah, M., M.A., B.T., Ph.D.  
Prof.  
2 Asst. Profs.

..... (Principal, Maharani's  
Coll.) Prof.  
6 Asst. Profs., 11 Lectrs., 4 other  
Teachers.

### *Engineering*

Krishnaswamiyengar, B., L.C.E.  
M.I.E. (Principal, Coll. of E.)  
Prof.  
Ramaswamy, E. K., B.Sc. Lond.,  
A.C.G.I. (Mech. E.) Prof.  
Joshi, K. D., M.A., B.E.  
(Civ. E.) Prof.

### *Geology*

Rama Rao, L., M.A., F.G.S. Prof.  
1 Asst. Prof., 6 Lectrs., 1 Demr.

### *Hindustani, Persian, and Arabic*

Shustery, A., M.A. Prof.  
2 Lectrs., 5 Munshis.

*History, Economics, and Political Science*

[Prof.  
D'Souza, V. L., B.A., B.Com. Lond.  
Krishna, M. H., M.A., D.Lit. Lond.  
Prof.  
5 Asst. Profs., 12 Lectrs., 1 Tutor.

*Kannada*

Srikantia, B. M., M.A., B.L.  
Hon. Prof.  
Venkannaiya, T. S., M.A. Prof.  
Krishnasastriy, A. R., M.A.  
Asst. Prof.  
5 Pandits, 3 Lectrs.

*Mathematics and Statistics*

Iyengar, K. S. K., B.A. Camb.  
Prof.  
Madhava, K. B., M.A., F.R.A.S.,  
A.I.A. Prof.  
Madhavarao, B. S., M.Sc. Prof.  
5 Asst. Profs., 19 Lectrs.

*Philosophy, Psychology, and Logic*

Wadia, A. R., B.A. Camb.  
Prof. (U.)  
Gopalaswamy, M. V., B.A., B.Sc.,  
Ph.D. Lond. Prof.  
1 Asst. Prof., 9 Lectrs.

*Physics*

Telang, Venkatarao A., M.A.,  
F.Inst.P. Prof.  
..... Prof.  
5 Asst. Profs., 12 Lectrs., 3 other  
Teachers.

*Sanskrit*

Narasimhasastriy, C. R., M.A.  
Prof.  
1 Asst. Prof., 3 Lectrs., 5 Tutors,  
2 Pandits (Visiting).

*Tamil and Telugu*

4 Pandits (2 for each).

*Zoology*

Subbarao, A., B.A., D.Sc. Lond.,  
F.R.M.S. Prof.  
2 Asst. Profs., 7 Lectrs., 2 Demrs.

*Medicine*

Robinson, J. F., B.A., M.D.,  
F.R.C.S.E., F.A.C.S.  
(Surgery) Prof.  
Hiriyannaiya, S., B.A., M.B.,  
B.S. Prof.  
Seshachalam, T., L.M.S., L.R.C.P.,  
M.R.C.S. (Anatomy) Prof.  
Venkatasubbarao, B., B.A., M.B.,  
B.S., M.R.C.P.  
(Medicine) Prof.  
..... (Pathol.) Prof.  
Captain, Miss K. S., M.D., B.S.  
Lond. and Bom., D.T.M. &  
H. Eng., L.M. Dub.  
(Midwif.) Prof.  
Ponnambalam, A. M., B.A., L.M.S.,  
M.R.C.P. Ed., D.O.M.S.  
(Pharmacol.) Prof.  
Subbarao, P. R., L.M.S., L.R.C.P.  
& S.E., D.O.M.S.  
(Ophthalmol.) Prof.  
Asst. Profs.—Anat. 1, Bot. 1,  
Physics 1, Physiol. 1, Zool. 1.

Lecturers.—Anæsth. 1, Anat. 2,  
Dental Surg. 2, Hyg. 2, In-  
fect. Dis. 2, Jurispr. 2, Ma-  
lariol. 1, Mat. Med. 1, Med. 1,  
Mental Dis. 2, Midwif. 1,  
Ophthal. 1, Pathol. 2, Physiol.  
2, Surg. 1, Tuberc. 2, Vaccin.  
2, Venereal. 1, X-ray and  
Radium Therapy 1.

Demrs.—Anat. 2, Biochem. 1,  
Biol. 1, Med. 2, Pathol. 1,  
Pharmacol. & Hyg. 1, Physiol.  
1, Surg. 2.

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THE MAHARAJA'S COLLEGE, Mysore.  
M.A. Ox., J.P.

Principal and President—J. C. Rollo,

THE CENTRAL COLLEGE, Bangalore. Principal and President—A. B. Mackintosh, M.A. Ox. and St. And.

THE COLLEGE OF ENGINEERING, Bangalore. Principal and President—B. Krishnaswamiyengar, L.C.E., M.I.E.

THE MEDICAL COLLEGE, Mysore. Principal and President—J. F. Robinson, B.A., M.D., F.A.C.S., F.R.C.S.Ed.

THE MAHARANI'S WOMEN'S COLLEGE, Mysore. Principal and President—  
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## GENERAL INFORMATION

This Univ. was founded in 1916 with two constituent Colleges, the Central Coll., Bangalore, and Maharaja's Coll., Mysore, which had for 25 yrs. been affiliated to the Univ. of Madras. To these have since been added the Women's and Professional Colleges mentioned above. There are also four Intermediate Colleges, two for men at Mysore and Bangalore, two for women, one at Bangalore and the other at Mysore, and a Medical School at Bangalore. The capital cost of all the Univ.'s buildings amounts to Rs. 13,59,643.

LIBRARIES. Univ., 25,463 vols.; Colleges, 68,121 vols.; Sansk. and Oriental, 16,132 vols. and 10,609 MSS.

FACULTIES. Arts, Science, Medicine, Engineering and Technology.

TERMS: June to Oct., Nov. to March.

ADMISSION to B.A. or B.Sc. courses is normally by Intermediate examn. in English, a second language, and three other subjects. Candidates prepare for this by two years' study in Intermed. Colleges after the ordinary High School course. Admission to the B.E. course is given under certain conditions to Interim. Sci. holders or B.Sc.'s with Physics, Chem. and Maths. as optional subjects and to the M.B., B.S. course if they have undergone the Pre-Medical course and passed the Pre-Medical examn. The B.Com. course suspended for the present.

DEGREE COURSES. 2 yrs.—B.A. or B.Sc.; 3 yrs.—B.A. or B.Sc. (Hons.); 4 yrs.—B.E. (successful candidates are eligible to take the degree after a year's practical course in a recognized works or firm); 5½ yrs.—M.B., B.S.; graduate course for Master's Degree—1 yr. for Hons. grads. and 3 yrs. for Pass grads., for B.T. 1 yr. after the B.A. or B.Sc. The D.Litt., D.Sc., and LL.D. are Honorary.

DIPLOMA COURSE. L.M.P., 4 yrs. after High School.

RECOGNITION OF DEGREES AND EXAMNS. OF OTHER UNIVERSITIES. See *Yearbook* 1935, Nos. 1-13 (deleting No. 10). In addition the following:

(1) The Cambridge School Certificate Examn. is recognized as qualifying for admission to the Intermed. course if passed with credit in English, Second Language, Elementary Maths. and one of the following—Hist., Geog., Physics, Chem., and Biol., and the whole examn. passed at one and the same time.

This Examn. is considered as a qualification only for admission to the Intermed. Course or the L.M.P. Course and not to any higher course.

In either case it is provided that the subjects taken at the examn. are cognate to those offered for the Univ. course and that the candidate is certified by the Univ. teacher concerned to be able to follow the instruction in the Second Language offered.

(2) The I.M.M.T.S. Dufferin Passing Out Certificate (Engineering branch and executive branch) is recognized as qualifying for admission to the Intermed.

course of this Univ. under Ordinance 8, Clause (ii.) provided that the rules of differential minima prescribed in Ordinance 9 are satisfied and that a candidate seeking admission as above shall satisfy the head of the institution in which he seeks admission as to his competency to follow the instruction in the Second Language.

(3) The Matriculation Examination of the Calcutta Univ. is recognized as qualifying for admission to the Intermediate Course in this Univ. on a basis of reciprocity.

RECOGNITION BY OTHER UNIVERSITIES. See *Yearbook* 1935. In addition the following :

The M.B., B.S. Degree of Mysore Univ. has been recognized as a registrable degree by the Govts. of Madras and Bengal.

The Govt. of Bombay have recognized the M.B., B.S. Degree of Mysore Univ. for Medical Registration in Bombay.

The examns. of Mysore Univ. are recognized as equivalent to the corresponding examns. of the Univ. of Madras.

For recognition by British Univs., see Appendix I.

INSPECTION OF INTERMED. COLLS. not forming parts of Constituent Colls. is made by Profs. deputed by the Council.

ENDOWMENTS, 100. Amount, Rs. 3,96,262.

SCHOLARSHIPS. Six, value Rs. 50, are awarded for post-graduate study and research under the profs. of this Univ.

FEES for courses for B.A., Rs. 96 + 12 (for Science subjects) a yr. ; B.A. (Hons.), Rs. 120 a yr. ; B.Sc., Rs. 120 a yr. ; B.Sc. (Hons.), Rs. 144 a yr. ; M.A., Rs. 120 a yr., and M.Sc., Rs. 144 a yr. ; B.E., Rs. 150 a yr. ; Pre-medical Course, Rs. 72 ; M.B., B.S., Rs. 200 a yr. ; B.T., Rs. 80 a yr. ; and L.M.P. (Diploma), Rs. 60 a yr. ; Inter. Arts, Rs. 72 + 8 (for Sci. Subjects) ; Inter. Sci., Rs. 88 a yr.

For Non-Mysoreans. Pre-medical, Rs. 120 ; M.B., B.Sc., Rs. 300 ; B.E., Rs. 250 ; B.T., Rs. 120 ; L.M.P., Rs. 120.

RESIDENCE. Univ. Hostels at Mysore and Bangalore. The average hostel exs. for 9 mos. is about Rs. 144. Residences of students not living in hostels or with their guardians are inspected by members of Students' Residence Committees.

A STUDENTS' INFORMATION BUREAU is maintained.

EXTENSION LECTURES. A Committee appointed by the Univ. Council and consisting of Profs. and others makes arrangements for courses of lectures on suitable subjects for the benefit of those unable to attend the ordinary courses of study at the Univ., and to publish such of the lectures as may be approved by the Committee. (There were 12 courses in the year, of which 9 were delivered in Kannada.)

PUBLICATIONS. *Calendar* ; *Examination Papers* ; *The Prabuddha-Karnataka* (Kannada Quarterly) ; *Finance* ; *Sanskrit Drama*.

## THE YEAR 1936-37

NEW BUILDINGS. A building for the Women's Intermediate College, Bangalore.

NEW DEPARTMENTS AND POSTS. The post of Superintendent of Physical Education sanctioned.

CHANGES IN REGULATIONS. 1. Provision made in the Ordinances, permitting candidates failing in first or second M.B., B.S. examns. to join second or third year L.M.P. class as the case may be.

2. The scheme of examn. for Intermediate was revised so as to include credit for class work.

3. Provision made in the Ordinances for appointment of a Board of Studies and a Board of Examiners in Hindi.

4. Provision made in the Ordinances requiring candidates for Honours in Science subjects to undergo a course in German comprising elements of Grammar and exercises in translation for the Science students of the Central College in the first year B.Sc. Hons. class.

5. The scheme of examn. for the Master's degree amended so as to provide for separate minima of 40 per cent each for : (i.) thesis ; (ii.) written paper ; (iii.) *vive voce* examn., besides the minimum of 50 per cent in the aggregate for a pass.

6. Provision made in the Ordinances permitting admission to M.B., B.S. degree course of L.M.P. Diploma holders who have passed the I.Sc. examn. and enabling them to take the M.B., B.S. degree in  $3\frac{1}{2}$  years after admission.

EXTRA-MURAL WORK. 33 extension lectures delivered at 14 places.

RETIREMENTS. Dr. E. P. Metcalfe, Vice-Chancellor ; Prof. Rao Bahadur B. Venkatesachar (Physics) ; Prof. C. R. Narayanrao (Zool.) ; Mrs. H. S. Hensman (Prof. English, Maharani's Coll.) ; Asst. Profs., T. S. Annaji Raay (English), S. V. Krishnaswamy Syengar (Hist. of Politics).

DEATH. L. S. Saptarishidyer, M.A., L.T., Lectr. (Maths.).

STUDENTS. Full-time : 2887, including 74 graduates.

DEGREES. B.A. (Old), 6 ; B.A. (New), 70 ; B.A. (Hons.), 25 ; M.A., 11 ; B.Sc. (New), 84 ; B.Sc. (Hons.), 39 ; M.Sc., 11 ; B.T., 39 ; B.E., 30 ; M.B., B.S., 17.

# NAGPUR UNIVERSITY

Founded 1923

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF THE CENTRAL PROVINCES.

VICE-CHANCELLOR—Sir HARI SINGH GOUR, M.A., D.Litt., D.C.L., LL.D.

TREASURER—Col. K. V. KUKDAY, C.I.E., I.M.S. (Retd.) (on leave).

DIWAN BAHADUR K. V. BRAHMA, C.I.E., M.B.E., B.A., LL.B.  
(Acting).

REGISTRAR—U. MISRA, M.A., LL.B.

ASSISTANT REGISTRAR—K. R. PANDYA, M.A. All.

## UNIVERSITY COLLEGE

LAW COLLEGE, NAGPUR. Principal—Y. V. Jakatdar, B.A. All. and Ox.  
Lectrs. :—D. W. Kathalay, B.A., LL.D. ; V. K. Rajwade, M.A., LL.M. Bom. ;  
J. R. Mudholkar, M.A. ; A. D. Sathaye, B.A., LL.B. Bom. ; Kasturchand  
Jain, B.A., LL.B. ; Mohd. Hidayatullah, B.A. ; W. Dutt.

## OTHER COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

MORRIS COLLEGE, NAGPUR (M).\*

HISLOP COLLEGE, NAGPUR (H).\*

ROBERTSON COLLEGE, JUBBULPORE (R).\*

COLLEGE OF SCIENCE, NAGPUR (Sc).\*

SPENCE TRAINING COLLEGE, JUBBULPORE (T).\*

KING EDWARD COLLEGE, AMRAOTI (K).\*

AGRICULTURAL COLLEGE, NAGPUR (A).\*

CITY COLLEGE, NAGPUR (C).\*

HITKARNI CITY COLLEGE, JUBBULPORE (HC).\*

HITKARNI LAW COLLEGE, JUBBULPORE (L).\*

CENTRAL COLLEGE FOR WOMEN, NAGPUR (W).\*

RAJKUMAR COLLEGE, RAIPUR (RK).\*

WASUDEO ARTS COLLEGE, WARDHA (WA).\*

GOVERNMENT SCHOOL OF ENGINEERING (E).\*

\* (M), (H), etc. : symbols for reference to the Colleges

## TEACHING STAFF

<i>Agriculture</i>		Lal, Dhanna, L.Ag.	(A).
Churchill, E. A. H., B.Sc. Edin.		Rahim, M. A., L.Ag.	(A).
	(A).	Joshi, K. G., B.Ag.	(A).
Phatak, B. R., B.Ag. Bom.	(A).		
Subbarao, B., L.Ag.	(A).	<i>Arabic and Persian</i>	
Mishra, S. K., L.Ag.	(A).	Hasan, S. A. H., M.A. All.	(K).

- Taqi, S. G., M.A. All. (M). Dadachanji, B. E., M.A. Bom. (M).  
 Hussain, Q. S. I., M.A. Panj. (M). Seth, H. C., Ph.D. Lond. (K).  
 Khan, Mrs. S. A. (W.). Singh, J., B.A. Ox., M.A. (RK.).  
 Ghani, M. A., M.A., M.Litt. Camb. (R). John, Miss A., M.A. Madr., B.Sc. Lond. (W).  
 Munje, B. H., M.A. (C).

*Botany and Zoology*

- Bhatia, G. S., M.Sc. Panj. (A). Suxena, G. P., M.A., LL.B. (HC).  
 Dastur, J. F., M.Sc. Bom., D.I.C. (A). Patel, J. S. K., M.A. Luck. (H).  
 Dwivedi, B. P., B.Ag. (A). Joglekar, N. M., M.A. (A.).

*Education*

- Shrivastava, K. P. (A). Staley, H. S., M.A. Camb. (Dean of Fac.) (T).  
 Varadpande, K. V., M.Sc. (Sc). Wankhade, O. M., M.Sc. (T).  
 Moghe, M. A., M.Sc. All. and Bom. (Sc.). Mitra, N. N., B.Sc., L.T. All. (T).  
 Nirula, R. L., B.Sc., Ph.D. Lond., D.I.C. (Sc). D'Souza, L. P., M.A. (T).  
 Karamsingh, M.Sc. Panj. (Sc). Choudhuri, M. L., B.A., L.T. (T).  
 Dutt, G. R., B.A. Panj. (A). Franklin, E. W., M.A., B.T. (T).  
 Husain, Syed M., M.Sc. Ahg. (Sc). Chatterji, Kalidas, B.Sc., L.T. (T).  
 Shukla, V. B., M.Sc. Luck. (Sc). Mehta, R. D., B.A., L.T. (T).  
 Vaidya, G. B., B.Ag. (A). Awasthi, S. P., M.A., L.T. (T).  
 Nivasarkar, G. N., B.A., L.T. (T).

*Chemistry, v. also Physics*

- Chakravarti, D. N., D.Sc. All. (K). Edwards, S. J., Ph.D. N.Y. (T).  
 Tamhankar, G. R., M.Sc. All. (R). Mustafa, G., B.A. (T).  
 Godbole, S. N., M.Sc. All. (R). Tiwari, S. D. (T).  
 Surey, L. S., M.Sc. All. (Sc). Gupta, D. P. (T).

*Engineering*

- Kale, V. D., B.Sc. All. (H). Cuerden, F. J., B.Sc. Lond. (E).  
 Gokhale, L. K., M.Sc. (Sc). Paranjpe, M. S., B.E. Bom., B.Sc. Lond. (E).  
 Chandorker, D. V., M.Sc. All. (Sc). Chatterjee, C. (E).  
 Joshi, R. H., M.Sc. (A). Mehta, Lalchand, M.A. All. (E).  
 Kulkarni, J. W., M.Sc. (K). Dhyansingh (E).  
 Paranjpe, D. R., M.Sc. (Sc). Garde, V. G., M.Sc. Manc. (E).  
 Kappanna, A. N., D.Sc. Dacca (Sc). Joseph, T. C., M.E. Madr. (E).  
 Patwardhan, H. W., M.Sc. (Sc). Bhattacharya, B. M., B.Sc. Calc., L.T. (E).  
 Krishnamoorthy, K., D.Sc. Lond. (Sc). Thompson, W. (E).  
 Bal, D. V., L.Ag., A.I.C., F.C.S. (A). Kundanlal (E).

*Economics*

- McFadyen, Rev. J. F., M.A., D.D. Glas. (H). Saldanha, Miss M. A., M.A. Madr. (W).  
 Nanavati, M. H., M.A., LL.B. Bom. (M). Verma, Sheo Prasad, M.A., Ph.D. Lond. (R).  
 Naidu, V. S., M.A. Madr. (R). Virdi, D. S., M.A. (C).  
 Raghaviah, W. B., M.A. Madr. (on leave) (H). Patel, K. P., M.A. Bom. and Lond. (R).  
 Gupta, A. C. Sen, M.A. Edin. (Dean, Fac. of Arts) (M). Rowlands, W. S., B.A. Ox. (R).

*English*

- Smith-Pearse, T. L. H., M.A. Ox. (RK).  
 Hassan, S. A. H., M.A. All. (K).  
 Jain, H. L., M.A., LL.B. All. (K).  
 Tostevin, F. P., O.B.E., M.A. Ox. (K).  
 Ganguli, N., M.A. All. (M).  
 Chordia, S. S., M.A. All. (M).  
 Guha, R. C., M.A. Dacca (M).  
 Gopal, Madan, M.A. All., B.Litt. Ox. (M).  
 Deshpande, Mrs. K., B.A. Lond. (M).  
 Dabadghao, Mrs. K., M.A. All. (WA).  
 Ghosh, M., M.A. All. (R).  
 Mitra, M. N., M.A. Dacca (Sc).  
 Jacob, G., M.A., M.Sc. Agra (H).  
 Nascar, P. N., M.A., L.T. All. (Sc).  
 Maolankar, R. B., M.A., LL.B. (K).  
 Gardiner, T. W., M.A. Camb. (H).  
 Mane, E. G., M.A. Bom. (H).  
 Deshpande, B. R., M.A. (WA).  
 Wanamali, V. R., M.A. Bom. (C).  
 Muley, D. S., M.A., B.T. Ben. (HC).  
 Chatterjee, G. C., M.A., LL.B. (HC).  
*Entomology*  
 Dutt, G. R., B.A. Panj. (A).  
*Geography*  
 Rangarao, Miss K. S., M.A. Madr., L.T. (W).  
 Forbes, V. S., M.A. Camb. (RK).  
 Tomar, U. S., B.A., B.T. (RK).  
*History*  
 Hunter, G. R., M.A., D.Phil. Ox. (M).  
 Tostevin, F. P., O.B.E., M.A. (K).  
 Fernandez, T., M.A. All. (K).  
 Gardiner, T. W., M.A. Camb. (H).  
 Menon, K. V., M.A. Madr. (WA).  
 Narain, Hirde, M.A., B.T. Panj. (M).  
 Deshpande, N. M., M.A., LL.B. (HC).  
 Powar, B. L., M.A. All. (R).  
 Sinha, H. N., M.A. All., Ph.D. Lond. (M).  
 Paul, J. N. W., M.A. All. (R).  
 Pahade, J. S., M.A. All. (C).  
 Mohan, V. C. M., M.A. Madr. (RK).  
 Shukla, B. V., M.A., LL.B. All. (HC).  
 Chatterjee, G. C., M.A., LL.B. (HC).  
 Singh, R. M., M.A. (M).  
*Indian Languages, Modern*  
 Pendse, S. D., M.A., M.O.L. Panj. (H).  
 Banhatti, S. N., M.A., LL.B. Bom. (M).  
 Surey, L. S., M.Sc. (Sc).  
 Pathak, R. D., M.A. Ben. (R).  
 Chordia, S. S. L., M.A. All. (M).  
 Bhawalkar, N. B., B.A. Calc. (W).  
 Kolte, V. B., M.A., LL.B. (K).  
 Patwardhan, H. W., M.Sc. (Sc).  
 Pandit, B. S., M.A. (H).  
 Pandharipande, S. L., M.A. (C).  
 Deshpande, V. G., M.A. (H).  
 Shrivastava, P. N., M.A. (W).  
 Bajpeyi, B. P., M.A. (HC).  
 Shukla, V. B., M.Sc. (Sc).  
 Virdi, D. S., M.A. (C).  
 Pathak, Y. M., M.A. (WA).  
*Law, v. also supra—Univ. Coll.*  
 Palit, H. D., LL.B. All. (L).  
 Dubey, K. L., LL.B. All. (L).  
 Roy, N. R., LL.B. All. (L).  
 Naolekar, R. G., LL.B. All. (L).  
*Mathematics*  
 Degweker, B. V., M.A., M.Sc., LL.B. All. (HC).  
 Belekar, S. B., M.A. Bom. (R).  
 Mone, T. V., M.A. Bom. (HC).  
 Kapur, R. K. D., M.Sc. All. (RK).  
 Dhar, S. C., D.Sc. Calc. (on leave) (Sc).  
 Patel, K. P., M.A. Bom. and Lond. (R).



- Panday, K. D., M.A. All. (K). Chinchalkar, S. W., D.Sc. (Sc).  
 Iyer, K. S. S., B.E. Mysore (Survey also) (A). Kulkarni, J. W., M.Sc. (K).  
 Mukerji, Umadas, M.Sc. (K).  
 Raghavachariar, V., M.A. Madr. (Sc). Agnihotri, G. P., B.Sc. All. (H).  
 Deoras, R. S., M.Sc. All. (Sc).  
 Shastri, N. A., M.Sc. (Sc). Thatte, V. N., M.Sc. All. (Sc).  
 Shadbe, N. G., D.Sc. Edin. (Sc). Makoday, G. S., M.Sc. (R).  
 Chandy, P. J., M.A. Madr. (H). Dabadghao, V. M., M.Sc. (Sc).  
 Paranjpe, D. R., M.Sc. (Sc).  
 Ganesan, A. S., M.A., Ph.D. Lond., D.I.C. (Sc).

*Modern European and Classical Languages*

- Leonie, Sister (French) (M).  
 (Also other members of the staff, who teach other subjects.)  
 Shahane, S. M., M.Sc. (R).  
 Kapre, P. K., Ph.D. Lond. (Sc).  
 Sen, B. R., M.Sc., Ph.D. Lond. (R).

*Music*

- Patwardhan, D. S. (W). Thosar, B. V., M.Sc. (Sc).

*Myology*

- Dastur, J. F., M.Sc., D.I.C. (A).  
 Mahmud, K. A., B.Sc. (A).  
 Panditrao, D. B., B.Ag. Bom. (A).  
 Political Science

*Persian, v. Arabic*

*Philosophy, v. also Engl.*

- Rowlands, W. S., B.A. Ox. (R).  
 Moses, D. G., M.A. Madr. (H).  
 Ramanatham, P. S., M.A. Madr. (K).  
 Deshpande, B. R., M.A. (C).  
 Devadutt, V. E., M.A. And. (H).  
 Prasad, Jwala, M.A. All., Ph.D. Camb. (R).  
 Dharamaraj, M. G., M.A. Mad. (H).  
 Pathak, S. N., M.A. (M).  
 Shrivastava, S. N., M.A. All. (HC).  
 Gunamani, I. D., M.A. Madr. (H).  
 Deshmukh, C. D., M.A., Ph.D. Lond. (M).  
 Londhe, D. G., M.A., Ph.D. Leipzig (WA).  
 Naidu, Miss S., M.A. Madr. (W).  
 Dubey, B. C., M.A. (HC).  
 Abraham, A. L. T., M.A. Madr. (H).

*Sanskrit, v. also English*

- Somalwar, S. G., M.A. All. (K).  
 Chaturvedi, S. P., M.A. All. (M).  
 Mirashi, V. V., M.A. Bom. (M).  
 Jain, H. L., M.A., LL.B. All. (K).  
 Navlekar, N. R., M.A. All. (R).  
 Bapat, G. B., M.A. Bom. (H).  
 Varadpande, D. V., M.A. (C).  
 Paranjpe, P. M., M.A. (HC).  
 Gyani, S. D., M.A. Ben. (WA).

*Veterinary Science*

- Shukla, P. A. (A).  
*Zoology, v. Botany*

## GENERAL INFORMATION

The University was established in 1923. The colleges (except the Agricultural College) were formerly affiliated to the Univ. of Allahabad. The

authorities of the Univ. are the Court, Executive Council, Academic Council, and Faculties. The Univ. does not hold a Matriculation Examn., but admits students who have passed (a) the Final Examn. of the Central Provinces Board of High School Education, or an examn. recognized (with the sanction of the Govr.-Genl. in Council) as equivalent thereto, or (b) the Matricn. Examn. of an Indian Univ.

**FACULTIES.** Arts, Science, Law, Education, and Agriculture.

**DEGREES.** B.A. (Pass and Hons.), M.A., D.Litt., B.Sc. (Pass and Hons.), M.Sc., Ph.D., D.Sc., LL.B., LL.M., LL.D., B.Ag., M.Ag., B.T.

**DIPLOMAS.** Diploma in Teaching, Junior, Senior and Higher Diplomas in Oriental Learning, and Diploma in Engineering.

**PUBLICATIONS.** *Calendar*; *Annual Report*; *Examn. Papers*; *Prospectus*, etc. A Journal of research work done by the teachers of the University is published annually.

## THE YEAR 1936-37

**BENEFACTIONS.** The Shivaji Narayan Gold Medal Fund, Rs. 1000 and the Soubhagyawati Parbati Bai Makode Gold Medal Fund, Rs. 1000 for a gold medal to be awarded annually to examinee who obtains highest marks in B.A. (Pass) examn. in Economics and Marathi respectively. The Kamala Narayan Behere Literary Prize and Medal Fund, Rs. 1300 for prize, value Rs. 101, and gold medal to be awarded triennially by Bd. of Studies in Marathi to author of best Marathi book pubd. during the period.

**CHANGES IN REGULATIONS.** The B.Sc.(Tech.) and M.Ag. were added to the Univ. degrees prescribed by Statute 27. The Court passed an amendment of Statute 33 extending term of office of Vice-Chancellor from 2 to 3 yrs. Two new Ordinances embodying conditions for admission to First and Final Examns. for Diploma in Engineering—for which a 3 yrs.' course in Civil, Mechanical and Automobile Engineering is now provided by the Engineering School, Nagpur—made during the year. By amendment of D.Sc. Ordinance, 3 yrs.' residence in the Central Provinces and Berar has been made compulsory for graduates of other Univs. submitting a thesis for D.Sc. degree of Nagpur Univ.

**THE STUDENTS' INFORMATION BUREAU.** The Bureau advises and helps students who go abroad for advanced studies. For the October Session of 1936 the Bureau obtained admission for 14 students to English Univs.

**UNIVERSITY LIBRARY.** The library contains 29,219 vols. costing over Rs. one lakh.

**STUDENTS.** 3703.

**DEGREES.** B.A., 307; B.A. (Hons.), 10; M.A., 78; LL.B., 242; B.Sc., 88; B.Sc. (Hons.), 8; M.Sc., 12; B.T., 25; B.Ag., 15.

# OSMANIA UNIVERSITY, HYDERABAD, DECCAN

Founded 1919

PATRON—HIS EXALTED HIGHNESS THE NIZAM, G C.S.I., G.B.E.

CHANCELLOR—Rt. Hon. Sir AKBAR HYDARI, P.C., LL.D., D.C.L. Ox.

VICE-CHANCELLOR—NAWAB MAHDI YAR JUNG BAHADUR, M.A. Ox.

PRO-VICE-CHANCELLOR—(Acting) QAZI MOHAMAD HUSAIN, M.A. Panj.,  
B.A., LL.B. Camb.

REGISTRAR—H. A. ANSARI, B.A. All.

## TEACHING STAFF

### THE UNIVERSITY COLLEGE (ARTS, SCIENCE, THEOLOGY, AND LAW)

#### *Botany*

Saiduddin, M., B.Sc. Bom., M.A.  
Edin. Prof.

Bari, Abdul, M.Sc. Bom., B.T.  
Alig. Lectr.  
Salam, Abdus Lectr.

#### *Chemistry*

Qureshi, M., M.Sc. Panj., Ph.D.  
Berlin Prof.  
Husain, S., M.Sc. Alig., Ph.D.  
Lond. Prof.

Khan, M. A., B.Sc. All. Reader.  
Lecturers :

Basroor, V., M.Sc. Lond.  
Rao, I. S. R., M.Sc. Dacca.  
Rahman, Khalilur, M.Sc.  
Tahir, N. A., M.Sc. (on leave).  
Mohamad, Syed S., M.Sc. (offg.).

#### *Economics and Sociology*

Rahman, H., M.A., LL.B. All.,  
B.Sc.(Econ.) Lond.  
Prof. in charge.  
Hasan, Syed J., Ph.D. Heidelberg  
Reader.

Qadir, M. A., B.A. Madr., B.Sc.  
(Econ.) Lond. Lectr.  
Husain, Syed A., M.A., LL.B.  
Luck., L.T. Alld. Lectr.

Rizvi, S. A. L., B.Sc. Lond., M.A.,  
LL.B. Alig. Lectr.

#### *English*

Khan, M. H. A., B.A. Ox. Prof.  
Harding, F. J. A., B.A. Ox., Dip.  
in Ed. Ox. Prof.  
Virabhadru, T., M.A., L.T.  
Madr. Prof.  
Doraiswami, M.A., L.T. Madr. (on  
leave) Lectr.  
Krishnan, V. S., B.A. Ox. Lectr.  
Barkatullah, K., B.A. Alig. Lectr.  
Aslam, M., M.A. Madr.

Actg. Lectr.  
Sebastian, J. J., M.A. Nag.  
Actg. Lectr.

#### *History*

Sherwani, H. K., M.A. Ox. Prof.  
Khan, M. A. Y., B.A. Ox.  
(on deputation) Prof.  
Rahman, M. J., M.A. Panj. Prof.  
Saksena, K. C. Roy, M.A. All.  
Reader.  
Khan, Yusuf H., D.Litt. Paris  
Reader.  
Topa, I. Nath, Ph.D. Freib.  
Reader.

Siddiq, Abdul Majid, M.A., LL.B.  
Lectr.  
Ahmad, S. S., M.A. Lectr.

*Languages (Ancient and Modern)*

Haq, Abdul, B.A. All. (Urdu) Prof.  
Haq, Abdul, B.Litt., D.Phil. Ox.  
(Arabic) Prof.  
Nizamuddin, Muhd., Ph.D. Camb.  
(Persian) Prof.

*Readers :*

Ibrahim, Syed (Arabic).  
Khan, A. H. (Persian).  
Husaini, Qari Syed K., M.A.,  
LL.B., Ph.D. Lond. (Persian).  
Husain, Syed S., M.A. All., Ph.D.  
Lond. (Urdu).  
Qadri, G. M., M.A., Ph.D. Lond.  
(Urdu).  
Joshi, C. N., M.A. Bom. (Marathi).  
Rao, R. S. (Telugu).  
Shastri, H. H. (Sanskrit).

*Lecturers :*

Al Qaiti, Saif bin Sultan H., M.A.,  
LL.B. (Arabic).  
Nabi, S.  
Faruqi, L.A., M.A., LL.B. (Persian).  
Sarwari, M. A. Q., M.A., LL.B.  
(Urdu).  
Rao, D. K. Bhimsen, M.A. Mysore  
(Kanarese).  
Khan, Yusuf Husain, D.Litt. Paris  
(French).  
Husain, S.J., Ph.D. Heid. (German).

*Law*

Mirza, H. A. Prof.  
Musavi, A. A., B.A. Bom., LL.B.  
Alig. Reader.  
Hamidullah, M., Ph.D. Bonn.  
D.Litt. Paris Lectr.

*Mathematics*

Husain, Qazi Mohd., M.A. Panj.,  
B.A., LL.B. Camb. Prof.  
Chand, K., M.A. Camb. Prof.  
Siddiqi, M. R., M.A. Camb., Ph.D.  
Leipz. Prof.  
Ali, S. B., M.A. Reader.

Muhiuddin, Mohd. Khwaja, M.A.  
Madr. Lectr.  
Venkatachari, V. P., M.A. Lectr.

*Philosophy*

Hakim, K. A., M.A., LL.B. Panj.,  
Ph.D. Heidelberg Prof.  
Valiuddin, M., M.A. Alig, Ph.D.  
Lond. Reader.

*Lecturers :*

Salahuddin, M., M.A. Dacca.  
Rahman, M. W., M.A. Panj.  
Lal, S. M., M.A., B.T. Alig.

*Physics*

Rahman, W., B.Sc. Calc. Prof.  
Ahmad, N., M.A., B.Sc. All.  
Reader.  
Ali, S. Mehdi, Ph.D. Reader.

*Lecturers :*

Rahman, Syed Abdul, B.A.  
Wafaqani, S. M. Y., B.A., M.Sc.  
Dacca.  
Lal, N. Ram, M.Sc. Alig., Ph.D.  
Lond.  
Satyanarayan, R., B.Sc. Lond.,  
A.R.C.S.  
Qadri, Syed Ahmed, B.Sc. Manc.

*Theology*

Gilani, M. A. Prof.  
Ahmad, Zahiruddin, M.A., L.T.,  
D.Litt. Egypt (Philosophy of  
Islam) Reader.  
Nadavi, Abdul Bari Reader.  
Qutbuddin, Qari, L. ès L. Egypt,  
B.A. Reader.

*Lecturers :*

Siddiqui, A. Q., M.A. (Logic).  
Ahmed, Syed F. (Quranic Exe-  
gesis).  
Jafari, M. O. (Islamic Law).  
Ali, Muhd. (Traditions).

*Zoology*

[Prof.  
Das, B. K., M.Sc. All., D.Sc. Lond.  
Rahimullah, M., B.Sc. Alig., M.Sc.  
Lectr.  
Singh, Satyanarayan, M.Sc. Alig.  
Lectr.

## MEDICAL COLLEGE

*Principal*—H. Haider Ali Khan, L.M. & S. Bom., L.R.C.P. Lond.,  
M.R.C.S. Eng., F.R.C.S. Edin.

*Anatomy*

Lal, B. M., B.A. Madr., M.B., B.S.  
Bom., M.Sc. Lond. Prof.

Sahgal, S. P., M.B., B.S. Bom.  
Reader.

Husain, Syed Mukhtar, B.Sc. Alld.,  
M.B., B.S. Lucknow Lectr.

*Bacteriology v. Pathol.*

*Hygiene*

Husain, M. M. S., M.R.C.S. Eng.,  
L.R.C.P. Lond., D.P.H.,  
D.O.M.S., D.T.M. & H. Lond.  
Pt.-time Lectr.

*Medical Jurisprudence*

Sanichar, Capt. M. G., I.M.S.,  
F.R.C.S. Edin. Pt.-time Lectr.

*Medicine*

Chandra, Benkat, M.B., B.S.  
Bom., M.R.C.P. Lond.,  
M.R.C.S. Eng. Prof.

*Midwifery, Gynaecology and  
Diseases of Infancy*

Borgaonker, V. G., M.B., B.S.  
Bom., L.M. Dub., M.R.C.S.  
Eng., L.R.C.P. Lond. Prof.

*Ophthalmology*

Rahim, S. A., B.A., M.B., B.S.  
Bom., D.O. Lond.  
Pt.-time Lectr.

*Pathology and Bacteriology*

Husain, M. A., M.B., B.S. Bom.,  
Ph.D. Durham Prof.

Nawaz, M. S., M.B., B.S. Panj. (on  
leave) Reader.

Ali, M. Nusrat, M.B., B.S. Luck-  
now Actg. Lectr.

Rao, V. Yeshwant, L.C.P. & S.  
Bom. Lectr.

*Pharmacology and Materia  
Medica*

Hardikar, S. W., M.D. Edin.,  
M.R.C.P. Prof.

Khan, Fazle Karim, M.B., B.S.  
Lucknow Reader.

Muhiuddin, M. G., M.Sc. Alig.  
Pharmaceutical Chemist.

*Physiology*

Rahman, S. A., M.B., Ch.B.,  
D.T.M. & H. Edin. Prof.

Abhyankar, R. N., M.B., B.S.  
Bom. Reader.

Zaidi, M., M.A., M.B., B.S. Lectr.

*Surgery*

[Pt.-time Prof.]  
Husain, K., M.B., Ch.B. Edin.

Moholkar, V. S., M.B., B.S. Bom.,  
F.R.C.S. Edin.

Pt.-time Lectr.

## ENGINEERING COLLEGE

*Principal*—Samiullah Shah, B.Sc. Manc.

*Accounts and P.W.D. Procedure*

Khan, M. Mir, M.Sc. Lond.  
Pt.-time Lectr.

*Architecture and Town Planning*

Ali, Syed A., A.R.I.B.A.  
Pt.-time Lectr.

*Drawing*

Hafizullah, M., B.Sc. Alig., B.Sc.  
(Eng.) Rang. Reader.

*Engineering, Civil*

Shah, S., B.Sc. Manc. Prof.

Sowdagar, A. S., B.E. Bom.,  
A.M.I.E., M.R.S.I. Reader.

*Engineering, Electrical*

Qadir, Syed Abdul, B.Sc. Madr.  
and Manc. Lectr.

*Engineering, Mechanical*

Ansari, Ziauddin, B.Sc. Manc.,  
M.A. Reader.

<i>Geology</i>	<i>Railway Engineering</i>
Abbas, S. M., B.Sc. Panj. Reader.	Alam, M., B.A., B.Sc. Manc. Pt.-time Lectr.
<i>Hydraulics</i>	
Raju, S. P., B.A. Mad., B.E. Bom., Dr.Ing. Munich Prof.	<i>Sanitary Engineering</i> Ali, W., B.Sc. Pt.-time Lectr.
<i>Irrigation</i>	<i>Surveying</i>
Yunus, S. M., B.A. Alig., B.Sc. Manc. Pt.-time Lectr.	Ghosh, P. K., M.A. Camb., B.Sc. Calc. Reader.

## TEACHERS' TRAINING COLLEGE

*Principal*—Mirza, M. Sajjad, M.A. Camb. *Readers*—Ali, M. S., B.A. Panj., B.T. Dac.; Khan, M. A. A., M.A. Delhi, M.Ed. Leeds. *Lecturer*—Shenderkar, D. D., B.A. Bom., B.T. Dac., Ph.D. Lond.

## WOMEN'S COLLEGE

*Principal*—Miss Amina Pope, M.A., D.Litt. All., L.R.A.M. Lond.  
*Readers*: Miss H. Gilson, B.A., L.T. Madr. (*English*); Mrs. C. Gibbs, B.A. Mys. (*Hist.*). *Lecturers*: Mrs. Ruqayya Begum, B.A. Camb. (*Hist.*); Mrs. Rabab Khanam (*Persian*); Mrs. Sundaram, B.Sc. Alld. (*Science*); Mrs. Jafari Begum (*Urdu and Theol.*); Mrs. Afsar Sultana Begum (*Urdu and Ethics*). 5 Part-time Lecturers.

## GENERAL INFORMATION

The University was established by a Firman (Order) of H.E.H. the Nizam in April 1917. Work began in Aug. 1919, with the opening of the University College. A Bureau of Translation was established in 1917 to provide text-books in Urdu, which is the medium of instruction. The executive government of the Univ. is in the hands of a Council consisting of 11 members, exclusive of Principals of Colleges. The organization of instruction rests with the Faculties and the Senate, which consists of 70 members, including the Council, Univ. Profs. and representatives of graduates and Faculties. The Univ. is entirely financed by the State and the budget for the year 1937-38 is Rs. (Hy.) 2,361,049.

**LIBRARY.** 41,185 vols., 2214 MSS. The Staff have also access to the large Asafia Library.

**BUREAU OF TRANSLATION.** Curator, M. Elias Burney, M.A., LL.B. All.; 20 Translators. Books published, 238; under translation, 108; in Press, 76.

**FACULTIES.** Arts, Science, Law, Islamic Theology, Medicine, Engineering, Education.

**TERMS.** June 21 to Sept. 18, Sept. 21 to Dec. 16; and January 6 to March 31.

**ADMISSION.** The Univ. holds a MATRICULATION examn., but the Matricn. examns. of other Univs., the Oxford and Cambridge School Examns. and the High School Leaving Certificates awarded by Boards of Secondary Education in India are accepted as equivalent.

**DEGREES.** B.A. and M.A. in the Faculties of Arts and Theology, LL.B., B.Sc., M.Sc., B.E., M.B., B.S.

B.A. (Arts and Theol.), B.Sc., 4 yrs., with an Intermed. examn. at the end of 2 yrs. The Intermed. examns. of other Indian Univs. are accepted as equivalent. B.E., 4 yrs., including 1 yr. practical. M.B., B.S., 5 yrs. M.A. (Arts and Theol.), M.Sc., LL.B., each 2 yrs. after graduation. Diploma in Education course, 1 yr.

FEES. Intermed.—Rs. 60 p.a.; B.A. and B.Sc.—Rs. 80 p.a.; M.A. and M.Sc.—Rs. 100 p.a.; LL.B.—Rs. 80 p.a. M.B., B.S.—Rs. 100 p.a. B.E.—Rs. 100 p.a. Dipl. in Ed.—Rs. 100 p.a.

RESIDENCE. University Hostels recently constructed, providing accommodation for 400 students. Cost of living about Rs. 250 p.a.

PUBLICATIONS. *Calendar*; *Annual Administration Reports*; *Research Journals*; *Text-books*.

## THE YEAR 1936-37

NEW DEVELOPMENT. M.A. classes opened in English Literature and Economics.

EXTRA-MURAL WORK. Extension Lectures by Dr. S. Sahni, D.Sc., F.R.S.—(1) Fossil Plants; (2) The Birth of the Himalayas. Prof. H. S. Suhrawardi (Fine Arts, Calcutta Univ.), two lectures on “Indo-Persian Arts.” Prof. F. J. A. Harding—“Some Modern Biographies.” Dr. Brij Mohan Lal—“The Story of Man.” Dr. S. P. Raju—“Moving Water in the Service of Man.” Dr. Abdul Haq—“Arabic Poetry.” Pandit Harihar Sastri—“The Age of Vedas and Vedic Literature.” Mr. Abdul Majeed Siddiqi—“Deccan History from 1724 to the present day.” Mr. Haroon Khan Sherwani—“History of Europe after the War.” Dr. S. P. Raju—“Water Power.” Dr. S. Abdur Rahman—“Physiology.” Dr. H. Hyder Ali Khan—“Modern Surgery.” Prof. P. K. Ghosh—“Survey and Map-making.” Dr. Qazi Moinuddin—“Organic Chemistry.” Dr. Syed Husain—“Industrial Chemistry.” Prof. Kishen Chand—“Modern Mathematics.” Prof. Qazi Mohamed Husain—“Stellar Universe.” Mr. Syed Mohammed Abbas—“Elements of Geology with special reference to the Geology and Mineral Wealth of Hyderabad.” Dr. D. D. Shenderkar—“Child Psychology.” Prof. F. J. A. Harding—“Twentieth Century English Prose.” Dr. Ghulam Mohiuddin Qadri—“The Development of Urdu Language.”

RETIREMENTS. Prof. E. E. Speight (English); Dr. Syed Abdul Latif (English); Mufti Abdul Latif (Theology).

STUDENTS. Full-time: 1993, including 175 graduates. Part-time: 8, Research, 8.

DEGREES. B.A. (Theology), 2; M.A. (Theology), 1; B.A. (Arts), 67; M.A. (Arts), 5; LL.B., 22; B.Sc., 41; M.Sc., 5; M.B., B.S., 13; B.E., 11; Dip. in Edn., 23.

# THE UNIVERSITY OF THE PANJAB, LAHORE

Founded 1882

PATRON—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF THE PANJAB.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—M. L. DARLING,  
C.I.E., M.A., I.C.S. (Financial Commissioner, Development, Punjab,  
Lahore).

REGISTRAR—ISHWAR DAS, RAI BAHADUR, M.A., LL.B.

## TEACHING STAFF

[(U.)=maintained entirely by the Univ.]

*Dean of University Instruction*—GEORGE MATTHAI, M.A., Sc.D. Camb.,  
F.L.S., I.E.S.

### *Arabic*

Shafi, M. Mohd., M.A. Camb. and  
Panj. Prof. (U.).  
Sadr-ud-Din, Mohd., M.A. D.Litt.  
Lectr.  
Khan, Rasul Lectr.  
Kuraishi, B. A., Ph.D. Berlin, M.A.  
Lectr.  
Bakhsh, Karim, M.A. (Seminar).

### *Astronomy*

Lall, P. Samuels, M.A., B.Sc.,  
F.R.A.S. Reader.  
Lal, Sardari, B.Sc., B.T. Demr.

### *Botany*

Chaudhuri, H., D.Sc., Ph.D.,  
D.I.C.  
Reader (U.), and Head of  
Dept.

### Lecturers :

Sethi, M. C., M.Sc.  
Ghose, S. L., Ph.D. Camb., M.Sc.,  
F.L.S. (Director, Univ. Botan-  
ical Laboratory).  
Singh, Charan, M.Sc.  
Singh, Jagjiwan, M.Sc., Ph.D.

### Demonstrators :

Chopra, R. S., M.Sc. (U.).  
Mehra, P. N., M.Sc. (U.).  
Vasisht, B. R., M.Sc. (U.).

### *Chemistry, Physical*

Bhatnagar, S. S., O.B.E., D.Sc.,  
F.Inst.P. (Director of Labs.)  
Prof. (U.).  
Dunnicliff, H. B., M.A. Camb.,  
Sc.D. Dub., F.I.C., I.E.S.

Prof.  
Speers, P. Carter, M.Sc. Princeton.  
Prof.  
Ray, J. N., Ph.D., D.Sc., F.I.C.  
Prof. (U.).  
Yajnik, N. A., M.A., D.Sc. Bom.,  
A.I.C. Reader.

### Lecturers :

Datta, G. L., M.A. Calc., Ph.D.  
Göttingen.  
Singh, Narinjan, M.Sc.  
Singh, Balwant, D.Sc.

### Demonstrators :

Silooja, S. Santokh, M.Sc. (Org.  
C.) (U.).



Kapur, Pyare Lal, M.Sc. (Inorg. C.) (U.).  
Kapur, A. N., M.Sc. (Phys. C.) (U.).

*Chemistry, Technical*

Speers, P. Carter, M.Sc. Prof.

Lecturers :

Bhalla, Mahesh Datt, M.Sc.  
Joshi, M. L., M.Sc.  
Ahmed, Nzeer, M.Sc.  
Kohli, S. J., Ph.D.  
Principal, MacLagan Engin. Coll.

*Economics*

Jain, L. C., M.A., LL.B., Ph.D.,  
D.Sc. Econ. Lond. Prof. (U.).

Lecturers :

Lucas, Rev. E. D., M.A., D.D.,  
Ph.D. Columbia.  
Sondhi, G. D., B.A. Camb., M.A.,  
I.E.S.  
Parshad, I. Durga, Ph.D. Lond.,  
M.A.  
Bali, A. N., M.A. Calc.  
Akhtar, Hamid, M.A., Ph.D.  
Madan, B. K., M.A. (U.).

*English* (for Hons. School in  
Science Subjects)

Sharma, D. C., M.A. Calc.  
Pt.-time Lectr.

*German*

Kuraishi, B. A., Ph.D. Berl., M.A.  
Pt.-time Lectr.

*History*

\*Bruce, J. F., M.A. Ox. and Syd.  
Prof. (U.).

Lecturers :

\*Wilson, Rev. R. L., M.A. Chicago  
(on leave).  
\*Khanna, A. R., M.A.  
Khanna, K. C., Ph.D. Lond., M.A.  
Sharma, Sri Ram, M.A.  
Kuraishi, B. A., Ph.D. Berlin, M.A.  
Ball, U. N., M.A.  
Sethi, R. R., M.A. (U.).

Honours School (additional to  
those asterisked above).

Lecturers :

Chacko, C. J., M.A., Ph.D.  
Gulshanrai, B. A., LL.B.  
Thomas, J. W., B.Com., B.Sc. Lond.  
Sharma, Sri Ram, M.A.  
Sethi, R. R., M.A. (U.).

*Mathematics*

Rao, C. V. H., M.A. Camb. (on  
leave) Prof. (U.).

Lecturers :

Raj, Hem, M.A., offg. Head of  
Dept.  
Lall, P. Samuels (v. Astron.).  
Chowla, S., M.A., Ph.D.  
Raj, Mul, M.A.  
Hamid, Abdul, M.A. Alig. and Calc.  
Chandra, Vidya, M.A.  
Ram, Sita, M.A.  
Mitra, K. K., M.A., Ph.D. Temp.  
Lectr. (U.).

*Persian*

Iqbal, M. Mohd., M.A. All., Ph.D.  
Camb. Prof. (U.).

Lecturers :

Maitra, K. M., M.A. Calc.  
Qazi-Fazl-i-Haq, K. S., M.A.  
Shairani, H. Mahmud.  
Bilgrami, M. S. A. H. S.

*Political Science*

Sondhi, G. D., M.A., I.E.S. (Head  
of Dept. to 8.11.38).  
Jain, L. C., M.A., LL.B., Ph.D.,  
D.Sc. Econ. Lond. Prof. (U.).

Lecturers :

Chacko, C. J., M.A., Ph.D.  
Sharma, Sri Ram, M.A.  
Sethi, L. R., M.A.  
Khosla, J. N., Ph.D. Col., M.A. (U.).

*Sanskrit*

Sarup, Lakshman, D.Phil. Ox.,  
M.A., O.A. Prof. (U.).

Lecturers :

Singh, G., M.A., LL.B.  
Sirkar, M. K., M.A. Calc. and  
Dacca.

Aggarwal, J. N., M.A.	Kumar, Anand, M.A. Camb..
Raghuvira, Ph.D. Lond., D.Litt. et Phil. Utrecht, M.A.	Reader (U.).
Shankar, G., B.Litt. Ox., M.A.	Nath, V., Ph.D. Camb., M.Sc., F.R.M.S. Lectr.
<i>Zoology</i>	Arora, G. L., M.Sc. Demr. (U.).
Matthai, G., M.A., Sc.D. Camb., F.L.S., I.E.S. Prof.	Najmud-Din, M.Sc. Demr. (U.).
	Ahmad, Nazir, M.Sc. Demr. (U.).

## HONOURS SCHOOL IN PHYSICS

<i>Head of Dept. and Director of Laboratory</i> —Prof. J. B. Seth, M.A. Camb., I.E.S. (to 8.11.38).	Datta, G. L., M.Sc., Ph.D.
Lectrs. :	Chhabra, B. D., M.Sc.
Anand, B. M., M.Sc. (U.).	Kichlu, P. K., D.Sc.
Benade, J. M., M.Sc.	Chaudhri, R. M., M.Sc., Ph.D.
	Ram, Mela, M.Sc.
	Chand, Faqir, M.A., Temp. (U.).

## UNIVERSITY COLLEGES

ORIENTAL COLLEGE, LAHORE. Principal and Prof. of Arabic—M. Muhammad Shafi, M.A. Camb. and Panj. Vice-Principal and Prof. of Sanskrit—Lakshman Sarup, M.A., D.Phil. Ox., O.A. M.A. courses in Arabic, Persian and Sanskrit; M.O.L. in all subjects. 17 other Teachers.

LAW COLLEGE, LAHORE. Principal—C. L. Anand, LL.B. Lond., M.A. Whole-time Law Readers—Rahim Bakhsh, M.A., LL.B.; C. L. Mathur, M.A., LL.B. Camb., B.Sc.; D. R. Mahajan, M.A., LL.B.; A. Q. Malik, B.A. All. 3 Part-time Law Readers, 17 Part-time Lecturers. All examns. in Law.

THE HAILEY COLLEGE OF COMMERCE. Principal—J. W. Thomas, B.Com., B.Sc. Lond. Vice-Principal—Krishan Datta, B.A. Panj. and Camb., B.Com. Lond. Courses for the B.Com. 6 Profs.

## AFFILIATED COLLEGES RECOGNIZED IN DEGREE OR DIPLOMA COURSES

B.A., M.A., etc.—A., As., B., C., E., Ec., F., Geog., G., H., Hi., M., Min., P., Pb., Ph., Pol. Sc., Ps., Psych., S., Tech. Ch., U., Z. = Affiliated up to B.A., M.A., etc., in Arabic, Astronomy, Botany, Chemistry, English, Economics, French, Geography, Geology, History, Hindi, Maths., Mineral, Persian, Panjabi, Philos., Pol. Science, Physics, Psychol., Sanskrit, Technical Chemistry, Urdu and Zoology.

## Agriculture

AMRITSAR, *Khalsa College*. B.Sc.(Ag.). Prof. of Ag.—Indar Singh, B.Sc. Wales. 4 Assistants.

LYALLPUR, *Agricultural College* (Govt.). B.Sc.(Ag.), M.Sc.(Ag.). Research Depts. in Ag., Bot., Chem., Zool. and Entomol. Principal, and Prof. of Entomol. and Entomologist to Govt. Panjab—Khan Bahadur M. Afzal Husain, M.A. Camb., M.Sc., I.A.S. 38 other Teachers.

PESHAWAR, *Islamia College*. B.Sc.(Ag.). Prof. of Ag.—Mian Mushtaq Ahmad, B.Sc.(Ag.) Edin. 5 Assistants.

## Arts and Science

AMRITSAR, *Hindu Sabha College*. B.A.—E., Ec., H., Hi., M. (A and B Courses), P., Ph., Pol.Sc., S., U. Principal—K. L. Bhatia, M.A., B.Sc. Vice-Principal—Arjan Natha Mattu, M.A. 16 other Teachers.

AMRITSAR, *Khalsa College*. M.A.—E., Ec., H., M. Large Collegiate School attached. Residential. Principal—Bhai Jodh Singh, M.A. 43 Teachers.

AMRITSAR, *M.A. O. College*. B.A.—A., E., Ec., H., M., P., Ph., Pol.Sc., U. Principal—M. D. Taseer, M.A., Ph.D. Camb. 11 other Teachers.

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## THE YEAR 1936-37

**NEW DEVELOPMENTS.** D.A.V. College, Rawalpindi, raised to B.A. standard. Affiliation of Law College, Lahore, extended up to LL.M. degree. Lahore Colleges permitted to prepare students for B.A. Hons. in History. Advisory Committee for Public Service Examns. instituted. Regulations for Diploma in Commerce Examn. added. Percentage of marks required to pass M.A. Examn. raised. Additional paper in Mechanism added in Group C of Second Examn. in Engineering. Regulations amended so as to make women students taking Urdu, or Hindi, or Panjabi as their compulsory lang., eligible to take in Intermediate Examn. an optional paper either in French or German or in a Vernacular not taken already as a compulsory subject. Regulation amended to allow B.T. candidates declared under compartment to appear in Supplementary Examn. in September or October. Panjab Univ. Sports Tournament Committee made a Statutory Body.

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## THE YEAR 1936-37

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# UNIVERSITY OF MALTA

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Busuttil, R., M.A., M.D. Prof.  
Borg, C., B.Sc., M.D. Asst. Prof.

### *Biology, v. Nat. Hist.*

### *Botany*

Vella, Salv. L., B.Sc., M.D., D.L.O.  
(Eng.), F.L.S. Prof.

### *Chemistry*

Sultana, A., M.D. Prof.

### *Engineering and Architecture*

Colombo, J., B.Sc., B.E. & A.,  
A. & C.E. (Archit.) Prof.  
Terreni, Capt. Jos., B.E. & A.,  
A. & C.E. (Munic. Engin.) Prof.  
Galea, V. R., B.A. Ox., B.Sc.,  
B.E. & A., A. & C.E. (Civil Engin.) Prof.

### *English Literature and History*

Fogarty, O. J., B.A. N.U.I.,  
M.R.S.T. (Eng.) Prof.

### *Experimental Sciences* [Demr.

Manchè, J. A., B.Sc., M.D.

### *Italian Literature*

Laurenza, V., D.Lit. Naples Prof.

### *Latin Literature*

..... Prof.

### *Law*

Galea, Most Rev. Can. Mgr. E.,  
J.C.D. Gregorian, Rome,  
B.Lit., D.D. (Canon L.) Prof.  
Cremona, F., LL.D. (Comm. L.) Prof.  
Vassallo, E. C., M.A., LL.D.  
(Const. and Internat. L.) Prof.  
Caruana, V., B.Lit., LL.D. (Civil  
L.) Prof.  
Randon, L. A., B.A., LL.D. (Crim.  
L. & Proced.) Prof.

..... (Hist. of Legisln. in Eng-  
land and Malta) Prof.  
Frendo, P. G., LL.D. (Fiscal Laws,  
Statistics and Admn.) Prof.

### *Maltese and Oriental Languages*

Aquilina, J., B.A., LL.D. Prof.

### *Mathematics, Pure and Applied*

Appleby, M., M.A. Camb. Prof.

### *Medicine and Surgery, v. infra*

### *Philosophy*

Cuschieri, Rev. A., D.D., Ph.D.  
Gregorian, Rome, O.C. Prof.

### *Physics*

Borg, S., M.D. Prof.

### *Physiology*

Xuereb, P., B.Sc., M.D. Prof.

### *Political Economy*

Cortis, G., B.Lit., LL.D. Prof.

*Theology*

Catania, Most Rev. Can. Mgr. L.,  
Ph.D. Gregorian, Rome,  
B.Lit., B.L. Can., D.D.

(Dogm. T.) Prof.

Bonnici, Most Rev. Can. Mgr. C.,  
D.D., B.L. Can.

(Moral T.) Prof.

Saydon, Rev. P. P., B.Lit., B.L.  
Can., Lic.S. Script., D.D.

(Holy Script. and Hebrew) Prof.

Bonnici, Rev. Can. A., B.A., B.L.  
Can., D.D.

(Hist. of the Church) Prof.

Thewma-Relf, Rev. Can. J., B.A.,  
B.L. Can., Lic. S. Script.,  
D.D.

(Patrology, Liturgy and  
Christian Archæol.)  
Prof.

*Medicine*

(for subjects of first 2 yrs.—  
Anat., etc., v. *supra*)

*Anæsthetics*

Critien, E. A., M.D. Demr.

*Bacteriology, Parasitol., and Path.*

Vincenti, R., M.D. Prof.

Glavina, L., M.D. Asst. Prof.

*Forensic M. and Toxicology*

Hyzler, J., B.Sc., M.D. Prof.

*Hygiene and Preventive M.*

Bernard, A. V., O.B.E., M.D.,  
D.P.H. Liv., D.T.M. & H.  
Eng. Prof.

*Materia M., Pharmacol., and Therap.*

Debono, Jos., B.Sc., M.D.,  
M.R.C.P. Lond. Prof.

*Medicine*

Ferro, E. H., B.A., M.D. Prof.

Ganado, W., B.Sc., M.D.  
Asst. Prof.

*Mental Diseases*

Vassallo, V., M.D. Naples, D.P.M.  
Eng. Prof.

*Midwifery and Gynæcology* [Prof.]

Ellul, J., B.Sc., M.D., F.C.O.G.  
Mattei, S.F., B.Sc., M.D. Asst. Prof.

*Ophthalmology*

Preziosi, Cont. L., Dip. Ophth.  
Ox., B.Sc., M.D. Prof.

*Pathology, v. Bact. and Pathol.**Surgery*

Debono, P. P., M.D., D.P.H.  
Camb., F.R.C.S. Eng. Prof.

Bonnici, J., B.Sc., M.D. Asst. Prof.

*Veneræol. and Dermatol.*

Curmi, V. M., M.D. Naples Lectr.

*Dentistry*

Lapira, E., D.D.S., M.F.D.I. Lectr.

## GENERAL INFORMATION

Founded in 1769 by Grand-Master Fra Emmanuel Pinto de Fonseca of the Order of St John under the authority of Pope Clement XIV., the University is lodged in a building erected by the Jesuit Fathers in 1591-93 for a College, whilst its Medical Faculty originated in a School of Anatomy founded in 1674 by Grand-Master Nicola Cottoner in the Great Hospital of the Order, which accommodated 745 patients. Under Statute of 1935 the Univ. is governed by a General Council consisting of the Rector, six Professors appointed by and representing the six Faculties, and six persons nominated by the Visitor, three of whom shall be present or past members of the Academic Body or Graduates of the Univ.

**LIBRARY**, 10,000 vols. A public library maintained in connexion with the Univ. contains over 100,000 vols. and is rich in MSS. and rare editions of great historical interest. **MUSEUMS**: Nat. Hist. and Archæol. **OBSERVATORY**, full meteorol. equipment and seismograph. **BOTANICAL GARDEN**. **HOSPITALS**,

available for Clinics : general (300 beds) and several special ; Leper Asylum (80) ; Mental Diseases (835) ; aged poor (930).

FACULTIES : Literature, Science, Engineering and Architecture, Theology, Law, Medicine.

MATRICULATION examn. requires pass in 5 subjects, including English, Maths., Italian or French, and, except for the course of Archit. and Engin., Latin.

DEGREES, ETC. B.A., B.Sc., B.L. Can., B.E. and A., B.Ch.D., M.D., LL.D., D.D. Diplomas of Notary Public, Legal Procurator, Pharmacist and Apothecary, Dental Surgeon, Midwife.

SCHOLARSHIPS FOR GRADUATES. Govt. Travelling Scholarship of £120—awarded every 3 yrs., one each in Theol., Law, Med. and Engin. The Aubrey Causton Strachan Scholarship of £120—awarded every 6 yrs. in the Faculty of Med. The Bugeja Scholarship of £50—awarded every 3 yrs., one each in Theol., Law and Med. The Lorenzo Gatt Scholarship of £50—awarded every 3 yrs. to the student in Engin. who secures the Govt. Travelling Scholarship.

PUBLICATION. *Calendar* (Oct.).

## THE YEAR 1936-37

STUDENTS. Full-time : 199, including 17 graduates. Part-time : 33.

DEGREES (conferred triennially). 1937—B.A., 6 ; B.Sc., 18 ; B.L.Can., 6 ; B.E. & A., 3 ; M.D., 14 ; LL.D., 14 ; D.D., 7.

DIPLOMAS. Dental Surgeons, 7 ; Notary Public, 10 ; Legal Procurator, 1.

# UNIVERSITY OF HONG-KONG

Founded 1911

PATRON—H.M. THE KING.

CHANCELLOR—H.E. THE GOVERNOR OF HONG-KONG.

VICE-CHANCELLOR AND PRINCIPAL—D. J. SLOSS, C.B.E., M.A. Liv.

REGISTRAR—W. B. FINNIGAN.

LIBRARIAN—Mrs. M. E. M. RING, M.Sc.

## TEACHING STAFF

*Accounting & Business Practice*  
Martin, T. A., A.S.A.A. \*  
Pt.-time Lectr.

*Anatomy*  
Shore, L. R., M.D. Camb. Prof.  
Wong, R. J., M.B., Ch.M. Syd.  
Tutor.

Tsai, Ai Le, M.B., B.S.  
Asst. to Prof.  
Balean, H., M.D., Ch.B., F.R.C.S.,  
L.R.C.P. Lond. Hon. Demr.

*Anatomy, Morbid*  
Begbie, R. S., M.D. Edin. Demr.

*Biology*  
Herklots, G. A. C., Ph.D. Camb.,  
M.Sc. Leeds, F.L.S. Reader.  
Ng, C. S., B.Sc. Soochow Demr.

*Chemistry* [Prof.  
Byrne, G. T., M.Sc. Manc., F.I.C.  
Hill, R. A., M.Sc. Liv., A.I.C.  
Lectr.  
Chan, C. L. Demr.  
Hui, Miss Wai Haan, B.A. Demr.

*Chinese*  
Hsü, Ti-shan, M.A. Columbia,  
B.D. Yenching, B.Litt. Ox.  
Prof.  
Ma, Kiam, M.A. Columb. (Lit.)  
Lectr.  
Chan, Kwan Po, B.A.  
Lectr. & Tutor.

*Commerce*  
..... Lectr.

*Economics and Political Science*  
Robertson, R., M.A. Edin. Prof.

*Education*  
Forster, L., M.A. Lond. Prof.  
Dyer, W. J., M.A., Dip.Ed. Brist.  
(Method) Pt.-time Lectr.

*Engineering, Civil and Mech.*  
Smith, C. A. Middleton, M.Sc.  
Birm., M.I.M.E. (Mech. E.),  
Taikoo Prof.  
Fenwick, A. H., B.Sc. Lond.  
(Civ. E.) Lectr.  
Morley, D. W., M.A. Camb. (Mech.  
E.) Lectr.  
Redmond, F. A., B.Sc. Lond.,  
D.I.C., F.G.S. (Civ. E.) Prof.  
Boxer, S. V., B.Sc., Dip. Ed.  
Edin. Lectr.  
Yeung, Li Kai, B.Sc. (Mech.E.)  
Demr.  
Lum, Pau Yue, B.Sc. Demr.  
Weller, F. C. Workshop Instr.

*Engineering, Electrical*  
Roffey, M. H., D.S.O., M.Sc. McG.,  
M.I.E.E. Prof.  
Day, I. Demr.

*English*  
Simpson, R. K. M., M.C., M.A.  
Edin. Prof.

## Lecturers and Tutors :

Birch, B. G., M.A. Bristol.  
 Paterson, A. H., B.A. Ox. (to  
 12.9.38).

Salter, K. W., B.A., Dip.Ed.  
 Bristol.

*French*

Marty, Mme. Pt.-time Lectr.

*Geography*

..... Pt.-time Lectr.

*History*

France, N. H., M.A. Camb. Reader.

*Logic and Ethics*

Reeve, G. W., B.A. Alta.  
 Pt.-time Lectr.

*Mathematics, Pure and Applied*

Brown, W., M.A., B.Sc. Glas. Prof.  
 Faid, Mrs. J. E., B.Sc. Durh.  
 Pt.-time Lectr.

*Medicine and Surgery, v. infra**Philosophy*

..... Lectr.

*Physics*

Faid, W., M.Sc. Durham Prof.  
 Davies, D. F., M.A. Ox. Lectr.  
 Po, Un, B.Sc. Demr.  
 Hu, Pak Mi, B.A. Demr.

*Physiology*

Ride, L. T., M.A., B.M., B.Ch. Ox.,  
 M.R.C.S., L.R.C.P. Prof.  
 Ling, Ke Dieh, M.B., B.S. Asst.  
 Lim Ek, Quee, M.B., B.S. Demr.  
 Cheng, See Yan, M.B., B.S.  
 Demr.

*Medicine*

(for subjects of first 2 yrs.—Anat.,  
 etc., v. *supra*)

*Anæsthetics*

Smith, D. A., M.A., M.B., B.Ch.,  
 L.M.S.S.A., D.T.M. & H.  
 Teacher.

*Hygiene and Pub. Health*

Yeo, K. C., M.D., D.T.M. & H.,  
 D.T.H. Camb. Lectr.

*Medical Jurispr.*

Greaves, A. V., M.B., M.R.C.P.  
 & S., D.T.M. Lectr.

*Medicine*

Gerrard, W. I., O.B.E., M.D.,  
 Ch.B. Aberd., D.P.H.,  
 F.R.C.P. Lond. Prof.  
 Chiu, Put Po, M.B., B.S. Asst.  
 Wu, Hong Tak, M.B., B.S. Asst.

*Obstetrics and Gynæcology*

..... Prof.

Ho Tung, Miss Eva, M.B., B.S.,  
 D.T.M. & H. Lond., L.M.,  
 D.G.O., M.R.C.P.I. Asst.  
 Quek, Cheng Kim, M.B., B.S. Asst.

*Ophthalmology*

Hargreaves, M. B., Ch.B. Edin.,  
 M.R.C.P.Ed., D.P.H. Eng.,  
 D.O.M.S. Lectr.

*Pathology*

Davis, L. J., M.D., M.R.C.P.  
 Edin. Prof.  
 Guzdar, J. S., M.B., B.S. Asst.  
 Loke, Kam Thong, M.B., B.S.  
 Demr.

*Pharmacology*

..... Lectr.

*Pharmacy*

Morley, L. J., M.P.S. Demr.

*Radiology*

Farr, F. J., M.B., Ch.B. Brist.,  
 D.M.R. & E. Lectr.

*Surgery*

Digby, K. H., M.B., B.S. Lond.,  
 F.R.C.S. Eng. Prof.  
 Lien, Tsoong Kya, M.B., B.S.  
 Asst.  
 Fook, W. Lai, M.B., B.S. Asst.

*Surgery, Clinical*

Digby, Prof. K. H. Ho Tung Prof.

*Vaccination*

[Teacher.  
 Thomas, G. H., M.D., B.S.]

*Venereal Diseases*

[Lectr.  
 Selby, J. A. R., M.B., Ch.B. Edin.]

## GENERAL INFORMATION

The Univ. was incorporated in 1911 and formally opened in 1912. For early history, see *Yearbook* for 1929. The buildings, including class-room accommodation for 500 students, six hostels, laboratories, etc., together with playing-fields, occupy an area of 36 acres. In 1919 were opened the Schools of Physiology, Tropical Medicine, and Pathology presented by three Chinese gentlemen. "The root idea of the Univ. is to provide a place for Higher Education where Chinese youths can remain under the influence of their own parents and guardians . . . subject to the strong control which Chinese opinion exerts upon young men, instead of being adrift in a foreign country where a liberty unknown to students in the East is allowed to undergraduates" (*Calendar*, 1919-20).

The Court is composed of life, *ex-officio*, and nominated members; the Council is composed of the Chancellor, the Vice-Chancellor, the Treasurer, certain Government officials, the Chinese members of the Legislative Council, Deans of Faculty, and two representatives of the commercial community, with power for the Governor to appoint two additional members. The Senate consists of the Vice-Chancellor, the Director of Education, the Professors and Readers.

**LIBRARY.** General Library, *c.* 42,480 vols. The Fung Ping Shan Chinese Library includes 4734 sets of books and 41,105 vols. In 1933 the University bought from the Hankow Club a unique collection of some 3000 vols. written in English, French, and German dealing with China and things Chinese.

**MUSEUM** of Pathology and Trop. Med. **LABORATORIES:** Anat., Bact., Biol., Chem., Histol., Path., Physics, Physiol., Surgery, Trop. Med.; Applied Mechanics, Materials, Elec. Tech., Power House, Hydraulics, Steam, Elec. Machinery, Elec. Traction, Engin. and Carpentering workshops. **HOSPALS.** in the vicinity available for clinics, 400 beds; Govt. Bacteriological Inst. and Mortuary.

**FACULTIES.** Med., Engin., Arts. The Arts Faculty includes a department of Chinese.

**TERMS.** Sept.-Dec.; Jan.-March; April-June.

**ADMISSION.** Matriculation Examination: Candidates are required to satisfy the Examiners at one and the same examn. in five subjects and to obtain a minimum aggregate of marks in the subjects taken together: (i) English; (ii) Chinese; (iii) Higher Chinese; (iv) Latin; (v) French; (vi) Portuguese; (vii) Urdu; (viii) any other approved classical or modern language; (ix) Elementary Mathematics; (x) Mathematics (more advanced); (xi) Physics; (xii) Chemistry; (xiii) Botany; (xiv) History; (xv) Geography; (xvi) Biblical Knowledge. All candidates must satisfy the Examiners in (i), in a language other than English, any one of (ii) to (viii), and in one of (xiv), (xv) or (xvi); also *either* in one of the mathematical subjects (ix) or (x), *or* in one science, (xi), (xii) or (xiii). Not more than two languages other than English or two sciences may be offered.

Special Regulations for Entrance to Faculties and Courses of Study: To qualify for admission into the Faculty of Medicine, a candidate must have satisfied the Examiners in Mathematics (either (ix) or (x)), and either in (xiv) or (xv).

To qualify for admission into the Faculty of Engineering or into any Univ. course or subject involving the study of advanced maths. (pure or applied), a candidate must have satisfied the Examiners either in (ix) or in (x). A candi-

date offering (ix) must have satisfied the Examiners that he possesses an adequate knowledge both of geometry and trigonometry.

A candidate who satisfies the Examiners in (i), (ii), (iii) and in any two of (xiv), (xv), (xvi) shall be held to have qualified for admission into any of the three courses now prescribed for the Dept. of Chinese in the Faculty of Arts, viz. : for Study Groups, 6, 7 and 8.

**DEGREES.** B.A., B.Sc. (Eng.), M.A., M.Sc. (Eng.), M.B., B.S., M.D., M.S. The standard aimed at is that of the Univ. of London. To qualify for admission to the Bachelor's degree examns. residence for 12 (in Med.—15) terms is necessary; the medical course is 6 yrs. including one year devoted to the pre-medical sciences, physics and chemistry and to biology; 3 yrs. are devoted to clinical work subsequent to passing an examn. in anatomy and physiology.

The examn. for the Master's degree (except M.D.) may be taken at the end of 2 yrs. after graduation as Bachelor. For the M.A. or M.Sc. a thesis is required; for the M.S., evidence of special post-graduate experience. The examn. for the M.D. may be taken 5 yrs. after graduation, or at the end of 2 yrs. if evidence is produced of special post-graduate experience.

Graduates of other Univs. who wish to become candidates for the M.A. or M.Sc. degree must work under the direction of the Fac. concerned for at least 1 yr.

The Degree of B.A. may be obtained in any one of 4 Depts. under 7 "groups" of studies: (a) *Pure Arts and Science*: Group 1, Letters; Group 2, Experimental Science; Group 3, Social Science. (b) *Training of Teachers*: Group 4 (a), Science and Maths.; 4 (b), General. (c) *Commerce*: Group 5, Commercial Training. (d) *Chinese Studies*: Group 6, Chinese and English; Group 7, Chinese Studies.

**FEES.** The tuition fee is \$400 a year; the hostel fee, which includes board and lodging, is \$300 a year. Students who are allowed to live in hostels during a vacation—some have to because of their work, e.g. medical students, and others because their homes are too far away—pay vacation fees at the rate of \$8 a week, each. When a student joins he is required to deposit caution money to the extent of \$25 and to pay a registration fee of \$5. The entrance fee to the University Union is \$25 and the annual subscription is \$20; this annual fee covers the annual subscription to practically all the athletic clubs. The graduation fee for Bachelors' degrees is \$25; for Masters' degrees, \$100. Probably about \$1400 represents the minimum amount which, at present prices would cover a student's annual expenses including vacations.

**RESIDENCE.** All students must reside in the quarters provided, or in hostels founded by religious bodies and conducted under regns. approved by the Council.

## THE YEAR 1936-37

**NEW DEVELOPMENTS.** The School Certificate Examn. which was held by the Univ. has been discontinued. The Education Dept. of the Government of Hong-Kong will conduct an annual School Certificate Examn. to be held the year previous to the completion of the full school course. The University will in future conduct a Matriculation Examn. which will be distinct from the School Certificate Examn. referred to.

**RETIREMENT.** Sir William Hornell, C.I.E., M.A., LL.D., Vice-Chancellor, 28.10.37.

**STUDENTS** (Dec. 31, 1936). Full-time: 402 (including 69 women students). Part-time: 11.

**DEGREES.** B.A., 16; B.Sc. (Engineering), 18; M.B., B.S., 13.



# UNIVERSITY OF RANGOON, BURMA

Founded 1920

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF BURMA.

PRO-CHANCELLOR—Hon. U HTOON AUNG GYAW, B.A., LL.B.

VICE-CHANCELLOR—U SET, C.I.E., B.A.

REGISTRAR—L. HTIN SI, M.A. Calc.

## CONSTITUENT COLLEGES AND THEIR STAFFS

UNIVERSITY COLLEGE : Principal—U Pe Maung Tin, M.A. Calc.,  
B.Litt. Ox., I.E.S.

### *Biology*

Meggitt, F. J., M.Sc., Ph.D. Birm.,  
I.E.S. Prof.  
Khanna, L. P., M.Sc., F.L.S.  
Asst. Lectr.  
4 Demrs. and Asst. Demrs., 1  
Curator.

### *Chemistry*

Peacock, D. H., M.A. Camb., D.Sc.  
Lond., F.I.C., I.E.S. Prof.  
Farquharson, J., B.Sc., Ph.D.,  
A.I.C. Lectr.  
Venkateswaran, R., M.A. Mad.,  
Ph.D. Lond. Asst. Lectr.  
Tha, Po, M.Sc. Asst. Lectr.  
Menon, B. K., M.Sc. Asst. Lectr.  
8 Demrs. and Asst. Demrs.

### *Economics*

..... Prof.  
Bernardelli, H., D.Phil. Frankfurt  
Lectr.  
Khanna, B. M., M.A., LL.B. All.,  
F.S.S. Asst. Lectr.  
Dube, R. C., M.A. All. Asst. Lectr.  
2 Asst. Tutors.

### *Engineering, Civil*

Webster, F., M.C., M.Eng. Prof.

Gould, A. J., M.Sc. (Eng.), Ph.D.  
Camb., I.E.S. Lectr.  
Burton, A., B.Sc. Manc. Lectr.  
Jaidka, R. C., B.Sc. Asst. Lectr.  
Edujee, E. M. Workshop Supt.  
1 Tutor.

### *English*

Rhodes, F. W. W., M.A. N.Z.,  
B.A. Ox. Prof.  
Si, L. Htin, M.A. Calc. Lectr.  
Aung, Htin, B.A., Ph.D. Lectr.  
Beasley, Mrs. I. M., B.A., Ph.D.  
Lond. Temporary Lectr.  
Gopalakrishna Aiyar, P. G., M.A.,  
L.T. Mad. Asst. Lectr.  
Cruttwell, M. J. P., B.A. Camb.  
Lectr.

Jembunathan, S., M.A. Asst. Lectr.  
Miu, U Myo, B.A. Asst. Lectr.  
11 Tutors and Asst. Tutors.

### *Geology and Geography*

Beasley, C. G., M.A. Lond. Prof.  
Turner, J. S., M.Sc. Lond., F.G.S.  
(Geol.) Sr. Lectr.  
Spate, O. H. K., M.A. Camb.  
(Geog.) Lectr.  
3 Demrs., 1 Asst. Tutor, 1 Carto-  
grapher.

<i>History</i>	[Prof.	Asst. Lecturers :
Brookes, A., M.A. Camb., I.E.S.		Haldar, K. P., M.A., M.Sc. Calc.
Luce, G. H., M.A. Camb., I.E.S.		Ka, U, M.A., A.T.M.
	Lectr.	Machado, F. E., M.Sc.
Pearn, B. R., M.A. Lond.	Lectr.	Mitter, O. K., M.Sc. Lond.
Desai, W. S., M.A. Bom. and Camb.	Asst. Lectr.	5 Tutors and Asst. Tutors.
4 Tutors and Asst. Tutors.		<i>Oriental Studies</i>
<i>Law</i>		Cassim, A., B.A. Calc. (Pali).
Myint, U.	Lectr.	Offg. Prof.
Aung, U Chan Tun, B.A., B.L.		Asst. Lecturers :
	Pt.-time Lectr.	Aung, Hla, B.A.
Han, Ba, M.A., Ph.D., D.Litt.		Maung, E., M.A.
	Pt.-time Lectr.	10 Tutors.
<i>Logic</i>		<i>Physics</i>
Purkayastha, N. C. Das.		West, J., D.Sc. Manc., F.Inst.P.
	Asst. Lectr.	Prof.
<i>Mathematics</i>	[Prof.	Quayle, W. C., M.A., B.Sc. Lectr.
Owen, L. G., M.A. Ox., I.E.S.		Srinivasan, N. G., M.Sc.
Lewis, E. G., B.Sc.	Lectr.	Asst. Lectr.
		8 Demrs. and Asst. Demrs.

# JUDSON COLLEGE

Principal—G. S. Jury, M.A., Ph.D. Yale.

<i>Biology</i>		Gyi, J. Kan, M.A. Chic.
Lecturers :		3 Instrs.
Gates, G. E., M.A., Ph.D. Harv.		<i>Geography</i>
Dickason, F. G., M.A. Ohio.		Trueblood, L. W., M.A. Clark.
<i>Burmese</i>		Lectr.
Pe, Tun, M.A. Calc., B.L., M.R.A.S., T.P.S., M.H.R.		<i>History</i>
	Lectr.	Cady, J. F., M.A. Cin., Ph.D. Penn.
3 Instrs.		Lectr.
<i>Chemistry</i>		Stewart, Miss B. J., Ph.D. Lond., B.A.
Lecturers :		Lectr.
Scherling, C. C., M.A. Camb.		2 Instrs.
Shivers, Marion E., M.A. Columbia		<i>Mathematics</i>
Guha, S. C., M.A. Calc.		Ghatak, M. N., M.A. Calc. Lectr.
<i>Economics</i>		Johnson, A. N., M.Sc. Lectr.
Andrus, J. R., B.A. Redlands, M.A., Ph.D. Calif. Offg. Prof.		1 Instr.
Ohn, Tin, B.Sc. Lond.	Lectr.	<i>Pali</i>
1 Instr.		Chaudhury, R. P., M.A. Calc., P.R.Schol. Lectr.
<i>English Literature</i>		Pe, Tun, M.A. Calc., B.L., M.R.A.S., T.P.S., M.H.R.
Lecturers :		Lectr.
Rickard, S. H., B.A. Bucknell.		1 Instr.
Hunt, Helen K., M.A. Denison		<i>Philosophy</i>
(Dean of Women).		[Prof.
		St. John, W., B.D., Ph.D. Chic.

Jury, G. S., M.A., Ph.D. Yale  
Lectr.  
Bu, Hla, M.A. Calc., Ph.D. Lond.  
(Dean of Men) Lectr.  
Slater, R. H. L., M.A. Camb.  
Lectr.  
i Instr.

*Physics*  
Smith, D. O., B.A. Redl., M.A.  
Calif., B.Sc. Calif. Tech. Coll.  
Lectr.  
Majumdar, N. C., M.Sc. Calc. Lectr.  
Basak, B. K., M.Sc. Calc. Lectr.  
i Demr.

### MEDICAL COLLEGE

Principal—Lt.-Col. R. V. Morrison, M.D., F.R.C.P. Ed., I.M.S.  
Assistant—W. Chit Tun, B.Sc., M.B. Calc.

#### *Anæsthetics*

John, V. S., M.B., B.S., L.R.C.P.  
Lond., F.R.C.S. Eng. Lectr.

#### *Anatomy*

Irvine, Major G. H., M.D., L.M.,  
F.R.C.S.E., I.M.S. Prof.  
Guha, S. C., M.B. Calc., F.R.F.P.S.  
Glas. Asst. Lectr.  
Guha, A. C., M.B., B.S. Demr.  
Das, H. N., M.B., B.S. Demr.

#### *Bacteriology and Pathology*

Malone, Lt.-Col. R. H., M.D.,  
D.P.H., I.M.S. Prof.  
Gollerkeri, P. G., M.D. Bom.  
Asst. Lectr.  
Venkataswamy, T., M.B., B.S.  
Asst. Lectr.  
Ahad, N., M.B., B.S. Demr.

#### *Contagious Diseases*

Pillai, K. P., M.B., B.S., D.P.H.  
Lectr.

#### *Dentistry*

Drinkall, J. H., L.D.S., R.C.S.  
Lectr.

#### *Forensic Medicine*

David, M. D., M.B., C.M. Madr.,  
F.R.C.S.E. Lectr.  
Tin, Maung, L.R.C.P., M.R.C.S.  
Asst.

#### *Hygiene and Public Health*

Aung, San Hla, M.B., Ch.B. Edin.,  
D.P.H. Camb. Lectr.

#### *Materia Medica and Pharmacology*

Kundu, M. L., M.B., F.R.F.P.S.  
Glas. Lectr.  
Kahali, B. S., M.B. Asst.  
Dasgupta, S. R., M.B., B.S.  
Demr.

#### *Medicine*

Morrison, Lt.-Col. R. V., M.D.  
Edin., F.R.C.P. Ed., I.M.S.  
Prof.  
Menon, M. N., L.R.C.P., M.R.C.S.  
Asst.

#### *Mental Diseases*

Fraser, Maj. G. H., M.B., Ch.B.  
Edin., D.P.M., I.M.S. Lectr.

#### *Obstetrics and Gynæcology*

Treston, Lt.-Col. M. L., F.C.O.G.,  
F.R.C.S., L.R.C.P., I.M.S.  
Prof.  
May, Daw Yin, M.B., B.S.,  
M.R.C.S., M.R.C.P., F.R.C.S.E.  
(on leave)  
Pereira, Miss C., M.B., B.S. (offg.).

#### *Ophthalmology*

Cormack, Lt.-Col. H. S., M.C.,  
M.B., Ch.B., F.R.C.S.E., D.O.,  
I.M.S. Lectr.  
Jhaveri, M. H., M.B., B.S. Bom.  
Asst.

#### *Physiology*

Cropper, Capt. C. F. J., B.A. Ox.,  
M.R.C.S., I.M.S. Prof.  
Chowdhury, H., M.Sc., M.B.,  
M.R.C.P. Edin. Asst. Lectr.  
Rahman, K., M.B., B.S. Demr.

*Radiology*

Virmani, D. C., L.R.C.P., M.R.C.S.  
(on leave) Lectr.  
Cormack, Lt.-Col. H. S., M.B.,  
Ch.B. Edin., F.R.C.S.E., I.M.S.  
(Offg.).

*Surgery*

McDonald, Lt.-Col. D. P.,  
F.R.C.S.E., I.M.S. Prof.  
Nundy, D. M., M.B., B.S. Asst.

## TRAINING COLLEGE FOR TEACHERS

Principal and Lectr. in Hist. and Geog.—U. Ba, B.A., B.Ed. Lectr. in  
Education—Miss M. E. Scott, M.B.E., M.A., B.Ed. Edin., I.E.S.  
Art Master—U Ba Nyan. Lectr. on Teaching of Infants—Miss G.  
White, B.A.

*English*

Asst. Lectrs. :  
Grant, Mrs. I., B.A., B.T.  
De Souza, Miss A., M.A.  
Kamen, Miss A., M.A.

*Mathematics*

Chit, Daw, B.A., B.Ed. Asst. Lectr.  
Emin, Mrs. O. W., B.A. Asst. Lectr.

*Physical Training*

Lectrs. and Instrs. in Phys.  
Education :

*History and Geography*

Wemyss, Miss F., B.A., B.Ed.  
Asst. Lectr.

Hla, Tin D., Ph.B.

Barnard, Miss H.

3 Tutors, 5 other teachers.

COLLEGE MANAGED BY THE UNIVERSITY AND ITS  
STAFF

## INTERMEDIATE COLLEGE, MANDALAY

Principal—A. D. Marshall, M.A. Ox., with 6 Lecturers and 4 Tutors.

## GENERAL INFORMATION

The proposal to found a University in Burma was first made in 1892 as a result of the expansion of Rangoon and Judson Colleges. In 1878 the Rangoon High School was giving instruction to enable pupils to appear for the First Arts Examination of the University of Calcutta. In 1884-85 a College Dept. of the Rangoon High School was affiliated in Arts to the Univ. of Calcutta under the name of Rangoon College. This College in 1885-86 was controlled by the now defunct Educational Syndicate until 1904, when Government assumed direct management. Judson College, known until 1904 as the American Baptist Mission College, first gave "Intermediate" instruction in 1894. Both Colleges developed rapidly and provided instruction up to the Bachelor's degree, pass and honours standards in a limited range of subjects, viz. English, Pali, Philosophy, Mathematics, History, Chemistry and Physics, and in Burmese Composition to the Intermediate standard only.

In 1910, representations elicited an announcement that the Government of India hoped to establish a separate University for Burma as part of their general policy in higher education. Draft Rules to constitute a University were submitted by the Government of Burma to the Government of India in 1913 and again in 1916. After the war the Government of India wished to defer the scheme until the Royal Commission on Calcutta University had made its report, but the Lieut.-Governor of Burma was urged to establish a University as soon as possible. The main lines of the present University organization were then laid down. In June 1918 Mr. (later Sir) Mark Hunter was appointed

Director of Public Instruction with a view to drafting the University Constitution. This was slightly modified in the light of the Commission's Report and of the Dacca University Bill. The University of Rangoon Act was passed by the Burma Legislative Council in September 1920 and received the assent of the Governor-General in Council on 24th October, 1920. The Act was amended by the Legislature in 1924.

The Government College, Rangoon, and Judson College were incorporated in the University as the first Constituent Colleges of the University. In 1925 an Intermediate College was opened at Mandalay by Government. This College is managed by the University. In 1930 a Constituent College for the teaching of Medicine and Surgery and another for the Training of Teachers were established in the University.

The Calcutta University Commission laid down four essentials for a modern University, namely, that provision should be made for teaching and studies along the most approved lines and for the social life of the students in a centralized residential University; that there should be provision in the Constitution of the University for the disposal of purely academic matters by purely academic bodies and for an adequate representation of academic and non-academic interests in the Supreme Governing Body of the University; that there should be an adequate distribution and co-ordination of powers and functions amongst the various University agencies; administrative and academic, and that University affairs should be regulated, under Government protection, on a self-governing basis.

These essentials are adequately secured in the Rangoon University. Its organization does not satisfy all the tests of the Calcutta University Commission, but it is an organization adapted to the peculiar needs of Burma. It is not a unitary University of the type of the Dacca University. In the Rangoon University there is in general no hard and fast line between the University and the Colleges. The teaching staff are attached to colleges, but the work is done under University supervision and control. For administrative purposes the relation between the University and the Constituent Colleges is closer than the relation between the University and affiliated colleges in Indian Universities. There is real University control over the colleges on the one hand while on the other hand each Constituent College is represented on the Legislative and the Executive Bodies of the University.

The University is governed by a widely representative Council consisting of not more than 70 members, which exercises its functions through an Executive Committee of 12 members. As the Supreme Governing Body it has power to review the action of other authorities of the University. It is also empowered to sanction the annual financial estimates of the University. The Senate (the academic body of the University) consists of the Vice-Chancellor, the Director of Public Instruction, Burma, the Principals of the Constituent Colleges, the Professors, three members of the Council and not less than ten lecturers in Constituent Colleges. Its executive duties are discharged by a Standing Committee.

The Constituent Colleges are controlled by Governing Bodies and the Principals are assisted in the internal administration of the Colleges by advisory bodies of teachers.

The University and its Constituent Colleges are housed in buildings situated on an estate of about 450 acres adjoining the Victoria Lake. The total cost of land and buildings was approx. Rs. 1,65,00,000.

**SPECIAL FEATURES.** Courses in Burmese; in old Mon (Talaing); in Burmese Epigraphy leading to the M.A.; course in Far Eastern History with emphasis on Chinese and further Indian studies; special courses in Burmese

History. The University has access to a comprehensive collection of MSS. of Pali Pitakas with commentaries and Talaing MSS. in the Bernard Free Library and is engaged in the collection of similar materials.

LIBRARIES. University, 20,344 vols. This Library is devoted primarily to Burmese and Far Eastern Studies. University College, 36,697 vols.; Judson College, 20,925 vols.; Medical College, 1696 vols.; Training College for Teachers, 11,100 vols.; Intermediate College, 2740 vols.

DEGREES. B.A., M.A.; B.Sc., M.Sc.; B.Sc.Civ.Engin.; B.Sc. Forestry; B.L.; M.B., B.S. (6 yrs.' course from Intermediate examn.); D.Litt., D.Sc., LL.D., B.Ed.

DIPLOMA, in Engin., in Forestry. CERTIFICATE, in Teachers' Training.

ADMISSION. Ordinarily by Matriculation or a pass in the Anglo-Vernacular High School examn., or the English High School examn. held by Education Dept. in English, Burmese, Maths., and two optional subjects. Proficiency in English must be shown.

TERMS. Middle of June to beginning of October and beginning of November to middle of March.

FEES for Examinations: B.A., B.Sc., Rs. 30; B.A. (Hons.), B.Sc. (Hons.), Rs. 40; M.A., M.Sc., Rs. 40; B.L., Rs. 50; M.B. and B.S., Rs. 60. Diploma or Licence, Rs. 50; B.Sc. Forestry, Rs. 50; B.Sc. Engin., Rs. 50; B.Ed., Rs. 50; Univ. Trained Teachers' Certif., Rs. 40; Diploma in Engin., Rs. 40.

SCHOLARSHIPS for advanced study in the United Kingdom: 1 each in: Medicine (Diploma in Child Health, the M.R.C.P. and D.T.M. & H.); Oriental Studies, ((1) Comparative Philosophy, Phonetics and Linguistics, (2) Tibetan, more especially Buddhist Tibetan, and (3) other Languages of the Tibetan Chinese family at Oxford); Electrical Engineering; Chartered Accountancy; Handicraft including metal work, wood work and leather work; Diploma in Teaching and Rural Education; Agricultural Chemistry; Veterinary Science leading to the M.R.C.V.S.

PUBLICATIONS. *Calendar*; *Annual Reports*; *Convocation Addresses*.

## THE YEAR 1936-37

RESIGNATIONS. C. N. Nixon and U Thein Maung, Fellows.

DEATHS. Sir Mg. Ba, Dr. G. F. Clark, and Sao Kiu Maung, Fellows.

STUDENTS. Full-time: 2047; graduates, 129. Part-time, 11.

DEGREES. B.A. (Pass), 81; B.A. (Hons.), 31; M.A., 2; B.L., 28; B.Sc. (Pass), 19; B.Sc. (Hons.), 7; M.Sc., 1; B.Sc. (Engin.), 4; M.B., B.S., 14; B.Ed., 44; Diploma in Engineering, 5; University Trained Teachers' Certificate, 66.

# MANDATED TERRITORY—PALESTINE

## THE HEBREW UNIVERSITY OF JERUSALEM

Founded 1925

PRESIDENT—JUDAH L. MAGNES, Ph.D. Heid.

CHAIRMAN, BOARD OF GOVERNORS—CHAIM WEIZMANN, Sc.D. Freib.,  
D.Sc. Manc.

CHAIRMAN, EXECUTIVE COUNCIL—S. SCHOCKEN.

RECTOR—H. BERGMANN, Ph.D. Prague.

ADMINISTRATOR—D. W. SENATOR, Ph.D. Freib.

LIBRARIAN—G. WEIL, Ph.D. Berlin.

### TEACHING STAFF

#### *Archæology and Art*

Mayer, L. A., Ph.D. Vienna (Near  
Eastern Art and Archæol.)

Prof.

Sukenik, E. L., Ph.D. Dropsie  
Coll., Phila. (Palest. Archæol.)

Lectr.

#### *Bible*

Segal, M., Rabbi, M.A. Ox. (Jewish  
Bible Exegesis)

Lectr.

#### *Botany*

..... Prof.  
Eig, A., D.Sc. Montpellier (Sys-  
tematics and Geobotany)

Lectr.

Hareubeni, E., Ph.D. Lausanne  
(Biblical Botany)

Lectr.

Even-Ary, M., Ph.D. Frankf.  
(Plant Physiol.)

Sr. Asst.

Rayss, T., D.Sc. Geneva (Plant  
Physiol.)

Sr. Asst.

Zohary, M., Dr. rer. nat. Prague

Sr. Asst.

#### *Cancer Research*

Halberstaedter, L., Ph.D. Berl.  
(Radiol.)

Prof.

Dolschansky, L., Ph.D. Berl.  
(Exp. Path.)

Lectr.

Goldhaber, G., Ph.D. Freib. (Rad-  
iology)

Sr. Asst.

#### *Chemistry*

Fodor, A., Ph.D. Zür. (Biol. and  
Coll. Chem.)

Prof.

Farkas, L., Ph.D. Berl. (Phys.  
Chem.)

Prof.

Bobtelsky, M., Ph.D. Berne  
(Analyt. Chem.)

Prof.

Frankel, M., Ph.D. Vienna (Biol.  
Chem.)

Lectr.

Weizmann, M., D.Sc. Grenoble  
(Org. Chem.)

Lectr.

Reifenberg, A., Ph.D. Giessen  
(Appld. Biol. and Coll. Chem.)

Lectr.

#### *Economics*

Brutzkus, B., Ph.D. Novo-Alex-  
andria (Agr. Econ.)

Prof.

#### *Education*

Kaplan, M., M.A. Columbia  
(Principles of E.)

Prof.

Dushkin, A. M., Ph.D. Columbia  
(Educ. Method)

Lectr.

#### *Ethnology*

Brauer, E., Ph.D.

Res. Fellow.

#### *Geology*

Picard, L., Ph.D. Freib., D.Sc.  
Lond.

Lectr.

Avnimelech, M., Ph.D. Grenoble  
Sr. Asst.

*Gynæcology*

Zondek, B., Ph.D. Berl. Prof.

*History (and Topography)*

Baer, F., Ph.D. Freib. (Med.

Jewish Hist.) Prof.

Klein, S., Ph.D. Heid. (Palestine  
Research) Prof.

Koebner, R., Ph.D. Berl. (Mod.  
Hist.) Prof.

Dinaburg, B. (Modern Jewish  
Hist.) Lectr.

Goitein, S. D., Ph.D. Frankf.  
(Arabic and Moslem Hist.)

Lectr.

Tcherikover, A., Ph.D. Berl. (Gk.  
and Roman Hist.) Lectr.

*Hygiene and Bacteriology*

Kligler, I. J., Ph.D. Columbia  
Prof.

Olitzky, L., M.D. Berlin (Serol.)  
Lectr.

Mer, G., M.D. Naples (Epidemiol.)  
Lectr.

Aschner, M., Ph.D. Breslau Sr. Asst.

Leibowitz, J., Ph.D. Berlin, M.D.  
Basel (Nutrition) Sr. Asst.

*International Relations*

Bentwich, N., M.A. Camb. Prof.

*Literature*

Klausner, J., Ph.D. Heid. (Mod.  
Hebrew Lit.) Prof.

Yellin, D. (Hebrew Poetry,  
Spanish Period) Prof.

*Mathematics*

Fraenkel, A., Ph.D. Marb. (Pure  
Maths.) Prof.

Fekete, M., Ph.D. Budapest (Pure  
Maths.) Prof.

Amira, B., D.Sc. Math. Geneva  
(Pure Maths.) Lectr.

Levitzky, J. Sr. Asst.

Motzkin, Th., Ph.D. Basel (Geo-  
metry) Sr. Asst.

*Meteorology*

Ashbel, D., Ph.D. Berlin Sr. Asst.

*Music*

Lachmann, R., Ph.D. Berlin  
(Oriental M.) Res. Fellow.

*Parasitology*

Adler, S., M.B. Leeds, D.T.M. Liv.  
Prof.

Theodor, O., Ph.D. Koenigsb.  
(Entomol.) Lectr.

Witenberg, G., Dipl. vet. Novo-  
tsherkask (Helminthol.)  
Lectr.

*Philology*

Torczyner, H., Ph.D. Vienna (Heb-  
rew Philol.) Prof.

Weil, G., Ph.D. Berlin (Arabic and  
Turkish Philol.) Prof.

Baneth, D., Ph.D. Berlin (Arabic  
Lang. and Lit.) Lectr.

Schwabe, M., Ph.D. Berl. (Classi-  
cal Philol.) Lectr.

Lewy, H., Ph.D. Berlin (Latin)  
Lectr.

Pflaum, H., Ph.D. Heid. (Romance  
Langs.) Lectr.

Rivlin, J., Ph.D. Frankf. (Arabic  
Lang.) Instr.

Polotzky, H. J., Ph.D. Gött.  
(Egyptology) Instr.

*Philosophy*

Roth, L., M.A., D.Phil. Ox. Prof.

Bergmann, H., Ph.D. Prague  
Prof.

Guttmann, J., Ph.D. Breslau  
(Jewish Philosophy) Prof.

Scholem, G., Ph.D. Munich (Jew-  
ish Mysticism) Prof.

Buber, M., Ph.D. (Social Philos.)  
Prof.

*Physics*

Sambursky, S., Ph.D. Königsb.  
(Exp. Physics) Lectr.

Alexander, E., D.Ing. Sr. Asst.

Wolffsohn, G., Ph.D. Bonn.  
Sr. Asst.

*Physiology*

Wertheimer, E., Ph.D. Heid.  
(Pathol. Physiol.) Prof.

Geiger, A., M.D. Naples Lectr.



<i>Prehistory</i>		Assaf, S., Rabbi (Gaonic and Rabbinic Lit.)	Prof.
Stekelis, M., D.Sc. Paris	Research Fellow.	Albeck, H., Ph.D. Vienna (Hist. of Halakha)	Prof.
<i>Psychology</i>		Gulak, A., Dipl. Jur. (Jewish Jurispr.)	Prof.
Kraus, S., Ph.D., M.D. Vienna (Applied P.)	Res. Fellow.		
<i>Sociology</i>		<i>Zoology</i>	
Ruppin, A., Ph.D. Halle (Sociol. of the Jews)	Lectr.	Bodenheimer, F., Ph.D. Bonn (General Zool. and Entom.)	Prof.
Landshut, S., Ph.D. Freib.	Res. Fellow.	Aharoni, J. (Syst. Zool.)	Lectr.
<i>Talmud</i>		Haas, G., Ph.D. Vienna (Comp. Anat.)	Sr. Asst.
Epstein, J. N., Ph.D. Berne (Talmudic Philol.)	Prof.	Reich, K., Ph.D. Vienna	Sr. Asst.

## GENERAL INFORMATION

The University was opened on April 1, 1925, by Lord Balfour, as a group of research institutes. It is provisionally registered under the Law of Societies of Palestine. A Faculty of Humanities was established in 1928, a Faculty of Science in 1935.

**LAND AND BUILDINGS.** The University site is located on Mount Scopus. The land held by or for the Univ. now exceeds 220 dunams (55 acres). The Univ. Buildings comprise a building for the Depts. for Biological and Colloidal Chem., Genl. Chem., Parasitol., and Hygiene and Bacteriol., the Wattenberg Building for the Institute of Mathematics, and the Monness Shapiro Building for the Institute of Physics, which is, for the present, being used also for the Depts. of Botany, Zool., Geol.; the Library (Wolffsohn House), which also houses the Institute of Oriental Studies and the Archæological Collection; three service buildings (offices, power house, workshop); an animal house for medical experimentation; and the Open-Air "Minnie Untermeyer Memorial Theatre." The Cancer Research Laboratories have provisionally been installed at the Jerusalem Health Centre.

**LIBRARY (NATIONAL AND UNIVERSITY),** over 320,000 vols. Includes the Goldzieher Collection of books and periodicals on Arabic and Oriental Lit., the mathematical library of the late Felix Klein of Göttingen, and the Jarcho Medical Library. Among its manuscripts are the original of Einstein's Theory of Relativity and the Schwadron Collection of autographs and likenesses of Jewish men and women of distinction. The Schocken Collection of Hebrew Incunabula now contains 64 out of the 103 existing Hebrew Incunabula. The Library issues a bibliographical quarterly, *Kiryat Sefer* (Editor, I. Joel, Ph.D.).

**FACULTIES. ETC.** *Faculty of Humanities:* Dean, J. N. Epstein. *Faculty of Science:* Dean, Ch. Weizmann; Acting Dean, A. Fraenkel.

*Institutes and Departments:* Institute of Jewish Studies, Chairman of the Council—Chief Rabbi Dr. Hertz, of London. School of Oriental Studies—Director, L. A. Mayer. General Humanities (Philos., Hist., and Letters). Maths., Physics, Chemistry (Physical, Inorganic, Organic, Biological), Bot., Zool., Geol., Meteorol., Parasitol., Hygiene and Bacteriol., Physiol., Cancer Research Laboratories.

**DEGREES.** M.A. (4 yrs.), M.Sc. (4 yrs.), Ph.D. (2 post-graduate yrs.).

SCHOLARSHIPS: about 25; 5 Research Fellowships. For Lord Plumer Fellowship, £100, in Arabic Studies, *see* App. II. C. 25.

PUBLICATIONS. Information for Students (Hebrew), pubd. May. General Information (Hebrew, English), pubd. March. The Hebrew Univ. Press publishes *Tarbitz*, a Quarterly Review of the Humanities; *Kiryat Sefer*, a Bibliographical Quarterly; and has published books and pamphlets on Jewish Studies, Archaeology, Philosophy, Botany of Palestine, International Relations, a series (at present 18) of Hebrew translations of philosophical classics, as well as a series of inaugural and other University lectures.

## THE YEAR 1936-37

BENEFACTIONS. Mark Shawzin Legacy, £4500.

NEW BUILDINGS. A "Medical Centre" is being erected in the vicinity of the Univ., to consist of the Nathan Ratnoff Medical School Building, the Rothschild-Hadassah-University Hospital and the Henrietta Szold Nurses' School.

NEW POSTS. Chair of Principles of Education; Chair of Social Philosophy.

EXTRA-MURAL WORK. Extension courses and public lectures in Jerusalem, Tel-Aviv, and various agricultural settlements throughout the country.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. I. Wolfensohn (Cairo), on "Condition of the Jews in Cairo"; Prof. S. Kraus (Vienna), on "A Chapter of the Roman Regime in Palestine"; Prof. S. Baron (Columbia), on "The Jewish Problem in the 19th Century"; Dr. S. Rosenbloom (Curie Institute, Paris), on "X-ray and the Structure of the Atomic Nucleus"; Dr. Ignacio Bauer (Madrid), on "Moslem Education in Spain in the Middle Ages"; Prof. D. Jose M. Millas Vallicrosa (Barcelona), on "Rabbi Moshe Sephardi's Work in Astronomy," and "Rabbi Abraham Ibn-Ezra's Work in Astronomy."

RESIGNATION. S. Ginzberg, Administrator.

STUDENTS. Full-time, 779, including 48 research students.

DEGREES. M.A., 2; M.Sc., 14.

# UNATTACHED INSTITUTIONS AND COLLEGES OVERSEAS

## THE INDIAN INSTITUTE OF SCIENCE, BANGALORE

Founded 1911

*Address*—Hebbal, Bangalore District. *Telegrams*—Science, Bangalore.

VISITOR—H.E. THE VICEROY OF INDIA.

DIRECTOR—RAO BAHADUR B. VENKATESACHAR, M.A., F.Inst.P.

### TEACHING STAFF

#### *Bio-Chemistry*

Subrahmanyan, V, B.A. Mad.,  
D.Sc. Lond., F.I.C. Prof.  
Sreenivasaya, M., B.A. Madr.,  
F.I.I.Sc. Asst.  
Sastri, B. N., M.Sc. Bom. Asst.

#### *Electrical Communication Engineering*

Sreenivasan, K., B.Sc. Asst. Prof.

#### *Electrical Technology*

Aston, K., B.Sc.Tech., M.Sc.,  
M.I.E.E. Prof.  
Badhe, B. J., M.Sc. Lectr.  
..... Asst.

#### *Chemistry, General*

..... Prof.  
Krishnaswami, K. R., B.A. Mad.,  
D.Sc. Lond. Lectr.  
Jatkar, S. K. K., M.Sc. Bom.  
Lectr.

#### *Engineering, Mechanical*

Rau, K. B. Krishna, B.A., B.E.  
Mad. Lectr.

#### *French and German*

[Lectr.  
Amrita, Row K., M.A. Mad., L.T.

#### *Chemistry, Organic*

Guha, P. C., D.Sc. Calc.  
Asst. Prof.  
Ayyar, P. Ramaswami, M.A. Mad.  
Asst.  
Rao, B. Sanjiva, B.A. Mad. Asst.  
Iyer, B. H., M.Sc. Bom. Jr. Asst.

#### *Physics*

Raman, Sir C. V., M.A., LL.D.  
Calc., D.Sc., Calc. and Bom.,  
Ph.D. Freib., F.R.S., N.L.  
Prof.  
Rau, Govinda, M.A., Ph.D. Lond.  
Asst.

### GENERAL INFORMATION

The object of the Institute, opened July 24, 1911, is to establish Chairs and Lectureships in Science and Arts, especially with a view to the promotion of original investigations and their utilization for the benefit of India, and to provide and to assist in the provision of suitable libraries, laboratories, and all other necessary appliances.

*Associateships* are awarded on the recommendation of the Senate for 5 terms (of which there are 3 in a yr.—July–Sept., Oct.–Dec., Jan.–March) devoted entirely to research work; also for 3 terms *plus* a period of research elsewhere before or after the period spent at the Institute. *Fellowships* may be awarded to Associates who, having spent 5 yrs. in actual practice, produce satisfactory evidence of original and valuable research work, or other contribution to the advancement of scientific or industrial knowledge. *Certificates* are granted to students who satisfactorily complete approved courses of study. 135 Associateships and 5 Fellowships have been granted.

Students reside in a *Hostel*. Messing charges are from Rs. 20 to Rs. 30 p.m.; rent, lighting, and service, Rs. 10 p.m.

PUBLICATIONS. *Calendar* (annual); *Journal of the Institute*, about 16 parts annually. The Library contains 26,558 vols.

## THE YEAR 1936–37

STUDENTS. Full-time: 161, all graduates. Part-time: 25, all graduates. Bio-Chem., 44; Genl. Chem., 18; Org. Chem., 21; Elec. Tech., 71; Physics, 32.

# CEYLON UNIVERSITY COLLEGE, COLOMBO

Founded 1921

PRESIDENT—H.E. THE GOVERNOR OF CEYLON.

PRINCIPAL—R. MARRS, C.M.G., C.I.E., M.A. Ox.

REGISTRAR—F. H. V. GULASEKHARAM, M.A. Madras.

## TEACHING STAFF

### *Botany*

Ball, N. G., M.A., Sc.D. Dub. Prof.  
Sarbadhikari, P. C., M.A. Calc.,  
D.Sc., Ph.D. Lond., D.I.C.,  
F.L.S. Lectr.

### *Chemistry*

Kandiah, A., Ph.D., D.Sc. Lond.,  
A.R.C.S., D.I.C., A.I.C. Prof.  
Fonseka, E. L., M.Sc. Lond.,  
A.I.C. Lectr.  
Smith, L. D., B.A., B.Sc. Lond.  
Asst. Lectr.

### *Classics*

Whitely, S., M.A. Ox. Prof.  
Rodrigo, J. L. C., M.A. Ox. Lectr.  
Amerasinghe, C. W., M.A. Camb.  
and Lond. Asst. Lectr.

### *Economics*

Gupta, B. B. Das, M.A., Ph.D.  
Calc., B.Sc. Lond. Lectr.  
Shenoy, B. R., M.Sc. (Econ.) Lond.  
Asst. Lectr.

### *English*

Ludowyk, E. F. C., B.A. Lond.,  
M.A., Ph.D. Camb. Prof.  
Passé, H. A., B.A. Lond. Lectr.  
de Souza, A. T. A., B.A. Lond.  
Asst. Lectr.

### *French and German*

Jansz, Rev. P. L., M.A. Camb.  
Visiting Lectr.

### *Geography*

Ginigé, A., M.A. Lond. Lectr.

### *History, Modern*

Pakeman, S. A., O.B.E., M.C.,  
M.A. Camb. Prof.  
Dé, J. C., M.A. Calc. and Lond.  
Lectr.  
La'Brooy, W. J. F., B.A. Lond.  
Asst. Lectr.

Mendis, G. C., B.A., Ph.D. Lond.  
(Ceylon H.) Asst. Lectr.

### *Mathematics*

Suntharalingam, C., M.A. Ox.,  
B.Sc. Lond. Prof.  
Caspersz, U. D. R., B.Sc. Lond.  
Lectr.  
Gulasekharam, F. H. V., M.A.  
Madras Lectr.  
Nadaraser, S., M.A. Camb., B.Sc.  
Lond. Asst. Lectr.

### *Philosophy*

The Principal.  
Dharmarajah, J. V., M.A. Lond.  
Visiting Lectr.

### *Physics*

Mailvagunam, A. W., B.A. Camb.,  
B.Sc. Lond. Prof.  
..... Lectr.

Baliga, S. P., M.A. Madras  
Asst. Lectr.

### *Sinhalese, Sanskrit, and Pali*

Malalasekera, G. P., M.A., Ph.D.  
Lond. Lectr.

Siddhartha, Rev. R., M.A. Calc.	<i>Zoology</i>
Lectr.	
Wijesekera, O. H. de A., B.A.,	Burt, D. R. R., B.Sc. St. And.,
Ph.D. Lond. Asst. Lectr.	F.L.S. Lectr.
<i>Tamil</i>	
Kanapathipillai, K., B.A., Ph.D.	Fernando, W., B.Sc., Ph.D. Lond.
Lond. Lectr.	Asst. Lectr.

## GENERAL INFORMATION

As a preliminary step to the formation of a University for Ceylon, the College was established in 1921 by the Ceylon Government. A College Council, nominated by the Governor of the Colony, advises the Government on all important questions connected with higher education.

LABORATORIES. Botany, Chemistry, Physics, Zoology.

TERMS. July-Sept. ; Oct.-Dec. ; Jan.-Mar.

Admission to the Ordinary courses is restricted to students who have passed the London Matriculation Examination or obtained exemption from it. Others may be admitted to special courses on payment of admission fee, Rs. 10 minimum.

Degree Courses are provided for the B.A., and B.Sc., of the University of London. By special arrangement the University holds its Honours examinations in Ceylon in Engl., Classics, Oriental Langs., Hist., Philos., Maths., Physics, Chem., Botany, and Zool. A Pre-Registration course in Physics, Chem., and Biol. is provided for students of the Ceylon Medical College.

The College provides a 2 yrs.' course for Diplomas in Sinhalese and Tamil to students who have already passed the London Examn. in Arts with Sinhalese and Pali or Sanskrit in the case of Diploma in Sinhalese, and Tamil and Sanskrit in the case of Diploma in Tamil, as their subjects.

FEES FOR TUITION. Full course—Rs. 150 per annum plus Rs. 30 per annum extra for each science subject taken. Single subject : Arts—Rs. 15 per term ; Science—Rs. 25 per term.

RESIDENCE. Protestants, Roman Catholics, and non-Christians have hostels under College supervision. Cost of board and lodging, approximately, Rs. 40 p.m. There is a small hostel for women students, under Christian auspices.

SCHOLARSHIPS FOR GRADUATES. The Ceylon Govt. offers 4 of £300 per annum, each tenable for 2 or 3 yrs. in a British Univ.—one for Arts, one for Oriental Langs., one for Science, and one for Maths. Candidates must have been resident in the Island 5 yrs.

PUBLICATIONS. *Prospectus* (July).

## THE YEAR 1936-37

STUDENTS. Full-time : Arts and Pure Science, 595, including 3 graduates.

DEGREES OBTAINED (Univ. of London) in 1936. B.A., 15 ; B.Sc., 26.

# CEYLON MEDICAL COLLEGE, COLOMBO

Founded 1870

PRESIDENT—H.E. THE GOVERNOR OF CEYLON.

PRINCIPAL—S. T. GUNASEKERA, M.R.C.S. Eng., L.R.C.P., D.P.H.  
Lond., L.M.S., Director of Medical and Sanitary Services of Ceylon.

REGISTRAR—Prof. F. O'B. ELLISON, B.A., M.D. Dublin, F.R.A.S.

## TEACHING STAFF

### *Anæsthetics*

de Silva, J., M.B., C.M. Aberd.,  
D.P.H. Camb. Lectr.

### *Anatomy*

Hill, W. C. O., M.D. Birm., F.L.S.  
Prof.  
Kathirgamatamby, V., M.B.  
Madr., F.R.C.S. Eng., D.L.O.  
Lectr.

Asst. Lectrs. :

Fonseka, B. M., M.B., M.S. Lond.,  
M.R.C.S., L.R.C.P., F.R.C.S.  
Eng. (Pt.-time).

.....  
Misso, C. J. L., L.M.S. Demr.  
Sandrasagra, A. P., L.M.S. Demr.  
2 Assts.

### *Bacteriology*

Nicholls, L., B.A., M.D. Camb.,  
L.S.A. Lond. Lectr.  
Leanage, D. J. T., M.D. Lond.,  
F.R.F.P. & S. Glas.,  
M.R.C.P., M.R.C.S., D.T.M.  
& H. Lond. Demr.  
Seneviratne, L. B. E., L.R.C.P. &  
S. Edin., D.T.M. & H. Eng.,  
D.P.H. Lond., L.M.S.  
Demr.

### *Dermatology*

Leanage, D. J. T. (also Bact.)  
Lectr.

### *Diseases of Children*

Lectrs. :  
The Profs. of Med. and Surg.

### *Forensic Medicine*

Sinnadurai, N., M.D. Lond.,  
L.M.S. Lectr.

### *Gynæcology*

Attygalle, N., F.R.C.S. Eng.,  
L.R.C.P., D.L.O., M.C.O.G.  
Lond., L.M.S. Lectr.

### *Infectious Diseases*

Kandiah, C., M.B., C.M. Madr.,  
L.R.C.S. Edin. Lectr.

### *Leprosy*

Bartholomeusz, F. E. R., L.R.C.P.  
& S. Edin., L.R.F.P.S. Glas.

### *Materia Medica and Pharmacology*

de Silva, J. (also Anæsth.) Lectr.  
Pinto, C. F. X., M.P.S. Lond.  
(Pharmacy) Lectr.  
1 Lab. Asst.

### *Medicine*

Fernando, P. B., M.B., M.R.C.P.,  
D.T.M. & H. Eng., L.M.S.  
Prof.

Lectrs. :

Blazé, J. R., M.D. Lond., M.R.C.P.,  
L.M.S.

Fernando, C. F., M.D. Lond.,  
M.R.C.P., M.R.C.S.

Wijerama, E. M., M.D., M.R.C.P.,  
D.T.M. & H. Lond., L.M.S.  
Cooke, G., M.D. Lond., L.R.C.P.,  
M.R.C.S.

Leanage, D. J. T. (also Bact.).  
Dharmasena, C. B., M.B., B.S.  
Lond., L.M.S.

*Medicine, Clinical*

The Visiting Physicians of the  
Genl. Hospital.

*Midwifery*

Navaratnam, S. L., F.R.C.S.E.,  
D.T.M. & H. Lond., L.M.S.  
Lectr.

1 Visiting Obstetrician, 1 Obstet.  
Regr.

*Ophthalmology*

Arndt, E. W., M.R.C.S. Eng.,  
L.R.C.P. Lond., D.O.M.S.,  
L.M.S. Lectr.

*Otology, Laryngol. and Rhinol.*  
Kathirgamatamby, V. (also Anat.)  
Lectr.

*Parasitology* [Lectr.

Nicholls, L. (also Bacteriol.)  
Demrs. :

Wijerama, E. M., M.D., D.T.M. &  
H. Lond., L.M.S. (Protozool.)  
Leanage, D. J. T. (v. also Bact.,  
etc.).

Gunewardena, S. A., L.R.C.P. &  
S. Edin., F.R.F.P. & S. Glas.,  
D.T.M. Liv. (Helminthol.)

*Pathology* [Prof.

Karunaratne, W. A. E., M.D. Lond.  
Sinnadurai, N. (also Forensic  
Med.) Hon. Lectr.

Thiagarajah, S., M.R.C.P.Ed.,  
F.R.C.S.Ed., D.C.O.G.,  
L.M.S. Lectr.

Nathaniel, G. N. R., L.M.S.  
Demr.

3 Lab. Assts.

*Physiology*

Ellison, F. O'B., B.A., M.D. Dub.,  
F.R.A.S. Prof.

Handy, G. R., L.M.S. Actg. Lectr.  
Koch, A. C. E., L.M.S. Demr.  
1 Lab. Asst.

*Psychological Medicine*

Senanayake, I. A., M.R.C.S.,  
L.R.C.P., D.P.M. Lond.,  
L.M.S. Lectr.

*Public Health*

Chellappah, S. F., O.B.E., L.R.C.P.  
Lond., M.R.C.S. Eng., D.P.H.  
Lectr.

Dasgupta, B. C., M.B., B.S. Calc.,  
M.R.C.P. Irel., D.P.H.,  
D.T.M. & H. Lond.  
Asst. Lectr.

*Radiology and Electrothera-  
peutics*

Gunewardena, H. O., M.B. Lond.,  
M.R.C.S., L.R.C.P., D.M.R.E.  
Lectr.

*Surgery*

Paul, M., M.B., M.S. Lond.,  
M.R.C.P. Lond., F.R.C.S.  
Eng. Prof.

Lectrs. :

de Silva, A. M., L.R.C.P. Lond.,  
F.R.C.S. Eng.

Jayasuriya, J. H. F., L.R.C.P.  
Lond., F.R.C.S. Eng.,  
L.M.S.

Gabriel, V., M.R.C.P. Lond.,  
F.R.C.S. Eng., L.M.S.

Van Rooyan, C. A., M.R.C.S.,  
L.R.C.P., L.M.S.

Peiris, M. V. P. (also Oper. S.).

*Surgery, Clinical*

The Visiting Surgeons of the  
Genl. Hospital.

*Surgery, Dental*

Balendra, W., L.D.S., M.R.C.S.  
Eng., L.R.C.P. Lond., L.M.S.  
Lectr.

*Surgery, Operative*

Peiris, M. V. P., F.R.C.S., L.M.S.  
Lectr.

*Tuberculosis*

de Silva, C. I., M.B., B.S. Lond.



*Venereal Diseases* [Lectr.  
Fonseka, B. M. (also Anat.).

#### Apothecary Department.

Lectrs.: G. R. Handy, L.M.S.  
(Elem. Anat. and Physiol.);  
J. S. de Silva, M.B. Aberd.,

D.P.H. Camb. (Mat. Med.);  
G. A. W. Wickramasuriya,  
M.R.C.P., F.R.C.S.E., L.M.S.  
(Elem. Midwif.); M. de Costa,  
M.R.C.S., L.R.C.P. Lond.,  
D.P.H. Camb. (Pub. Hlth.);  
and 8 Lectrs. of the Coll.

### GENERAL INFORMATION

The College, founded in 1870, is controlled by a Council composed of members nominated from the teaching staff of the College, together with the Government Assessor and one member nominated from the Med. Profession generally. The College is recognized by the Gen. Med. Council.

The Medical Depart. provides a 5 yrs.' course for the L.M.S. (Ceylon); the Apothecary Depart. a 2 yrs.' course for the post of Government Apothecary or Estate Dispenser. Admission to the L.M.S. course is open only to students registered by the G.M.C., who are at least 17 yrs. of age and have passed the London matric. examn. or an exempting examn. and a special examn. in Chemistry, Physics, and Biology.

SCHOLARSHIPS, ETC. *The Rustomji Jamsheedji Jejeebhoy Scholarship*, Rs. 400 p.a., to be held for a period not exceeding 5 yrs., open to natives of Ceylon and India, of either sex, not over 21, resident in Ceylon, who are physically fit for the Med. profession. *The Dr. W. H. de Silva Scholarship*, value about Rs. 250, usually awarded every 2 yrs. Open to any person born in Ceylon, irrespective of sex or race, under 24 on Oct. 1 in year of election. *The Dr. de Hoedt Scholarship*, tenable for full period of pre-medical and medical curriculum. Open only to children of members of Dutch Burger Union of Ceylon. Also exhibitions, prizes and medal.

FEE. Tuition fee, Rs. 500 per annum.

TERMS. Oct. 1-Dec. 21, Jan. 3-March 31, May 1-July 31.

PUBLICATION. *Calendar* (October).

THE YEAR 1936-37 No return.

# COLLEGE OF AGRICULTURE, MAURITIUS

Founded 1923

PRINCIPAL AND CHAIRMAN OF ADVISORY BOARD—G. E. BODKIN, B.A.,  
Dip. Agric. Camb.

REGISTRAR—M. KÆNIG, A.Inst.P.

## LECTURERS

*Agronomy*—O'Connor, C. A.

*Chemistry*—Lincoln, R., M.A.  
Camb.; Berchon, F.

*Animal Husbandry and Vet. Science*  
—Lionnet, E., Dr. Vet. Paris,  
Lefébure, Y.

*Physics*—The Registrar.

*Biology and Entomology*—Moutia,  
A., and 2 others.

*Plant Ecology* [Lectr.  
Wiehe, O., B.Sc. Lond., A.R.C.S.

*Book-keeping*—Nicolin, H.

*Sugar Technology*—Baissac, L.,  
F.C.S.

*Botany and Mycology*—Shepherd,  
E. F. S., B.S.A. McG.

*Surveying and Agric. Engineering*  
—Avice, R., A.R.T.C.

## GENERAL INFORMATION

The College is administered as an integral part of the Department of Agriculture of the Colony. The cost of the building (opened Jan. 1925) and equipment was £14,000. Experimental fields and farms cover 60 acres. Laboratories provide accommodation for research in Chemistry, Entomology, Botany, Mycology, Physics, and Sugar Technology. Athletic grounds are attached to the College.

A 3 yrs.' course leads to the Diploma of the College. Short courses in the inter-crop period are provided for estate employees and special courses for agricultural and sugar-house chemists. The examns. of the City and Guilds of London Institute in sugar technology are held at the College.

The College year begins in April.

Minimum age for admission, 18. Entrance Examn. in English, French, Chemistry, and Maths. Holders of Matric. certificate of any British University are excused those subjects which appear on their matric. certificate.

Tuition fee for British subjects not natives of Mauritius, £20 p.a.

## THE YEAR 1936-37

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. L. Baissac (Sugar Conference, London).

STUDENTS. Full-time, 22. Part-time, 3.

DIPLOMAS (in Agric.), 3.

# MEMORIAL UNIVERSITY COLLEGE, ST. JOHN'S, NEWFOUNDLAND

Founded 1925

VISITOR—H.E. THE GOVERNOR.

PRESIDENT-EMERITUS—J. L. PATON, M.A.

PRESIDENT—A. G. HATCHER, M.A. McG., LL.D. Mt. All.

REGISTRAR—Miss M. G. MANSFIELD.

## TEACHING STAFF

PROFESSORS. The President (Maths.); Hunter, A. C., M.A. Ox., B.A. Lond., D. ès L. Paris (English and French); Harling, R. T., M.A. Calif., B.Sc. Lond. (Physics); Powell, E. C., M.A. Sask., Ph.D. McG. (Education).

ASSOC. PROFESSORS. Fraser, A. M., M.A. Edin. (Hist. and Econ.); Lovett-Janison, P., B.Sc. Sheff., M.A. Col. (Chem.); Lodge, Helen, B.A. Mt. All., M.A. Columbia (Education); Templeman, W., B.Sc. Dal., M.A., Ph.D. Tor. (Biol.).

LECTURERS. Baird, Edna, B.A. Dal., B.H.Sc. McG. (Household Sci.); Gillingham, A. G., B.A. McG., M.A. Ox. (Classics and German); Hayes, St. C. J., B.A. Dal., B.Sc. N.S. Tech. Coll. (Engin.); Kent, Alice M., B.Sc., M.A. Col. (Education).

OTHERS. Hunter, Mrs. A. C. (Spanish and French); Organ, Sadie L., B.A. McG., Librarian and Lectr. (Maths.); Summers, Miss G., B.A. St. F. X. (Latin); Kennedy, Miss K., B.Sc. St. F. X. Demr. (Biol.); Duder, R., B.A. McG. and Ox. (Mod. Lang.); Smith, Elizabeth (Art).

## GENERAL INFORMATION

The College, built by the Govt. as a War Memorial, was opened in 1925.

The curriculum covers the first 2 yrs. of the Univ. Courses in Arts, Pure Sci., Med., and the first 3 yrs. in Engin. and Agriculture. To students who have completed the work for the first and second years in the Coll. third-year status is granted by the following Univs.: (1) All the Univs. of the maritime Provs. (2) Toronto, in Arts. (3) Columbia, Harvard. (4) McGill, in Agriculture and Household Science. A one-year course in Teacher-Training is given to some 100 students duly matriculated.

The College Year is divided into two semesters, Sept.-Feb., Feb.-June.

ADMISSION. High Pass Standing in the Grade XI. examns. of the Newfd. Council of Higher Educn., conducted by Common Examining Bd. of Maritime Provinces and Newfd., or equivalent.

FEES. For full course, \$50 p.a.

EXTRA-MURAL AND EXTENSION COURSES are provided in most Arts and Science subjects, also in Navigation, Dietetics, Music, Health, Pharmacy, Household Science, Chemistry for Nurses, Economics. Seminars and study-groups for school-teachers, scientific workers, and others.

A SUMMER SCHOOL, specially designed for teachers, is held in July and August.

LIBRARY, 9000 vols.

SCHOLARSHIPS. Three Leaving Scholarships of \$300 have been specially endowed. A students' Loan Fund has been founded. The Carnegie Corporation have made grant of \$7500 to the Trustees to enable them to make grants in aid to students in the Coll.

Acadia offers annually one scholarship of \$125, and Mt. Allison one of \$125 and one of \$62.50. These scholarships are tenable for 2 yrs. Dalhousie offers annually one scholarship of \$200, tenable for one year.

Students having completed 2 yrs. at the College are eligible for Rhodes Scholarships.

### THE YEAR 1936-37

The Government of Newfoundland has assumed responsibility for support of the College on termination of Grant in Aid from Carnegie Corporation of New York.

BENEFACTIONS. Gift of set of reproductions of modern paintings from Carnegie Corporation of New York.

DEVELOPMENTS. Provision made for 10 instead of 65 Teachers in Training. Full time instructor in Art appointed. New 3-yr. course in Pre-Agriculture, affiliated with the Macdonald College of McGill Univ. Matriculation requirements increased. Medical examn. provided for all pupil teachers. Cadet Company of Guides organized. New playing-field laid out.

RESIGNATION. Prof. H. W. Harkness (Physics), on appointment to Univ. of New Brunswick.

STUDENTS. Full-time: 255. Summer School, 388. Evening Classes, c. 400.

# KING EDWARD VII. COLLEGE OF MEDICINE, SINGAPORE

Founded 1905

PATRON—H.E. Sir SHENTON THOMAS, K.C.M.G., O.B.E., Governor,  
Straits Settlements, and High Commissioner, Federated Malay  
States.

PRESIDENT OF COUNCIL—The Hon. R. D. FITZGERALD, M.C., M.D. Dub.,  
D.T.M. & H. Camb.

PRINCIPAL—G. V. ALLEN, M.D., B.Ch., B.A.O. Belf., D.T.M. and H.  
Lond.

## TEACHING STAFF

### *Anæsthetics*

Murrell, E. B., B.Ch. Camb.,  
M.R.C.S. Eng., L.R.C.P.  
Lond. Lectr.

### *Anatomy*

[Prof.  
Fell, W. A., M.A., B.Ch. Camb.  
Thevathason, A. W. S., L.M.S.  
Demr.  
Thambipillai, V., L.M.S. Demr.

### *Bacteriology*

Young, W. A., B.Sc., M.B.,  
B.S. Lond., D.T.M. and  
H. Lond., M.R.C.S. Eng.,  
L.R.C.P. Lond. Prof.  
Sen, N. K., M.B. Calc. Asst.

### *Bio-Chemistry*

Rosedale, J. L., Ph.D. Bonn,  
D.Sc. Aberd., F.I.C. Prof.  
Oliveiro, C. J., L.M.S. Asst.

### *Biology*

[Prof.  
Gater, B. A. R., M.A. Camb., D.I.C.  
Sandosham, A. A., L.M.S. Asst.

### *Chemistry*

(See Raffles College, Singapore).

### *Infectious Diseases*

Hawes, R. B., M.B., B.S. Lond.,  
F.R.C.P. Lectr.

### *Medicine*

Hawes, R. B., M.B., B.S. Lond.,  
F.R.C.P. Prof.  
..... Assoc. Prof.  
Haridas, G., M.R.C.P. Lond.,  
L.M.S. Tutor.  
Smith, C. E. Tutor.  
Monteiro, E. S. Tutor.

### *Mental Diseases*

[Lectr.  
Home, B. F., L.R.C.P., L.R.C.S.  
Ed., L.R.F.P.S. Glas.

### *Midwifery and Gynæcology*

English, J. S., B.A., M.D., B.Ch.,  
B.A.O. Dub., L.M. Rotunda,  
F.C.O.G. Prof.  
Sheares, B. H., L.M.S. Tutor.

### *Otology, Laryngology, Rhinology*

..... Lectr.

### *Pathology and Forensic Medicine*

Cowan, J. A., M.B., B.S. Lond.,  
D.T.M. Liv. Prof.  
Balasingham, T., L.M.S. Asst.

### *Pharmacy*

Roebuck, T., Ph.C., M.P.S. Lectr.  
Caldwell, A. F., B.Pharm., Ph.C.,  
M.P.S. Asst. Lectr.

<i>Physics</i> (See Raffles College, Singapore).	<i>Surgery</i> Monro, J. K., M.D., M.R.C.P., F.R.C.S. Prof.
<i>Physiology and Pharmacology</i> MacGregor, R. G. M. S., B.M., B.Ch. Ox., M.R.C.S., L.R.C.P. Lond. Prof.	Jumeaux, C. V. Tutor.
<i>Public Health</i> Scharff, J. W., B.A., M.D., B.Ch., B.A.O. Dub., D.T.M. & H. Lond. Lectr.	<i>Surgery, Clinical</i> ..... Prof. Tat Seong, Chong, L.M.S. Tutor.
Faris, D. W. G., M.B., B.S., D.P.H. Lond. Demr.	<i>Surgery, Dental</i> Tratman, E. K., M.D.S., L.D.S. Brist. Prof. Softley, J. W., B.D.S. Liv. Lectr.
<i>Radiology</i> Webster, J. S., M.B., B.S., D.P.H. Vict., D.M.R.E. Camb. Lectr.	<i>Venereal Diseases</i> Kelly, R. W. C., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

## GENERAL INFORMATION

The Coll. is a Government institution, partly endowed by public subscription, managed by a Council of Govt. officials and private members, with the Director of Medical and Health Services as President, advised by a Senate composed of the professors and lecturers with the Principal as Chairman. Since its foundation 277 licentiates have passed out. It owes its name to a large donation from a King Edward VII. Memorial Fund, which enabled the Council in 1913 to endow a Chair of Physiology.

The *Diploma* in Medicine, Surgery, and Midwifery was recognized by the General Medical Council in 1916. The Course extends over 6 yrs.

*Admission* qualifications: (1) The Cambridge School certificate, with English (special Malayan paper), another language, and Maths. as compulsory subjects, and two of the following—Hist., Geog., Chem., Physics, Bot., Expl. Sc., Applied Maths.; or (2) certificates of equivalent standard, e.g. London Matric., recognized by the General Medical Council as qualifying for registration as Med. students. Candidates must be of good physique.

**TERMS.** Trinity—June 1 to Aug. 31; Michaelmas—Oct. 1 to Dec. 20; Lent—Jan. 3 to March 31.

**DENTAL SCHOOL.** The School was started in 1928. The course covers 5 yrs. The Diploma in Dental Surgery is registrable in Malaya.

**PHARMACY COURSE.** A course for the training of Pharmacists was started in Oct. 1935. The course covers a 3 yrs.' pupilage under an approved Pharmacist and 1 yr.'s course of systematic lectures and practical classes in the College. The Diploma in Pharmacy is registrable in Malaya.

**TUITION FEES.** \$300 p.a.

**RESIDENCE, ETC.** Hostels for 148 students. There is a Students' Union.

**PUBLICATIONS.** *Calendar* (June); *Annual Report*.

## THE YEAR 1936-37

The fourth international malaria course under the auspices of the League of Nations was held in the College from 19th April to 29th May, 1937.

STUDENTS. Full-time: 193.

DIPLOMAS. L.M.S. (Singapore), 18; L.D.S. (Singapore), 5; Dip. Pharm. (Singapore), 17.

# RAFFLES COLLEGE, SINGAPORE

Founded 1928

PATRON—H.E. THE GOVERNOR OF THE STRAITS SETTLEMENTS.

PRESIDENT—The Hon. ALEXANDER KEIR, Acting Director of Education.

SECRETARY—W. G. McINTOSH.

## TEACHING STAFF

<i>Chemistry</i>	<i>Geography</i>	[Reader.
McOwan, G., M.A., B.Sc., Ph.D.	Amon, Prof. H. (also Educn.)	
St. And., F.I.C. Prof.	Murray, T. W., B.A. Camb.	Lectr.
Owen, C. T. J., B.Sc. Brist., A.I.C.		
Lectr.	<i>History</i>	
<i>Economics</i>	Dyer, W. E., M.A. Ox.	Prof.
Silcock, T. H., B.A., D.Phil. Ox.	Harrison, B., M.A. Dub.	Lectr.
Prof.	<i>Mathematics</i>	
<i>Education</i>	Oppenheim, A., B.A. Ox., Ph.D.	
Amon, H., M.C., B.A. Lond. Prof.	Chic.	Prof.
	Cooke, J. C., B.A. Ox.	Lectr.
<i>English Lang. and Lit.</i>		
..... Johore Prof.	<i>Physics</i>	
Hough, G. G., B.A. Liv. and	Alexander, N. S., M.Sc. N.Z.,	
Camb. Acting.	Ph.D. Camb.	Prof.
Moncur, J., M.A., Ph.D. St. And.	Webb, C. G., B.Sc. Lond.	Lectr.
Pt.-time Lectr.	Sen, L. N. Yung	Demr.

## GENERAL INFORMATION

This is a non-Government institution, endowed partly by the Straits Settlements and some of the Malay States and partly by public subscription, managed by a Council of Government officials and private members and advised by a Senate composed of the Professors, with the President as Chairman. It was opened in June 1928.

ADMISSION. Students are admitted to the College only after they have reached the age of seventeen, although exceptions may be made for students who have reached the age of sixteen and can furnish a special recommendation from their schools.

Before admission all students must be examined as to physical fitness, and will be accepted only if their standard of health is good. To qualify for admission, students must submit a certificate of character from their last school, and must have passed one of the following examinations: (a) The Malayan Cambridge Certificate or the ordinary Cambridge Certificate examination, with a pass with credit in English and three of the following subjects: Hist., Geog., Latin, Elem. Maths., Additional Maths. (if a credit pass has been obtained in Elem. Maths.), Chem., Physics, General Sci., Bot., Art, any



approved language; (b) The Final Examination for a degree in Arts or Science in any University of the United Kingdom or British Dominions; (c) The Matriculation Examination of any University in the United Kingdom or British Dominions; (d) Any other examination specially approved by the Senate of Raffles College.

Persons not members of the College may be admitted, with the approval of the President, to attend a course of lectures on any subject.

Diplomas are given to students who successfully complete a 3 yrs.' course at the College. The standard of instruction aimed at is that of the first degrees in Arts and Science at the Univ. of London. Students may, if they desire, study for the external degrees of B.A. or B.Sc. of that Univ.

TERMS. Trinity—June 16–Aug. 25; Michaelmas—October 6–December 15; Hilary—January 5–March 16.

FEES for tuition, \$300 p.a. (\$1 = 2s. 4d.); board and lodging, \$300 p.a.

RESIDENCE. There are Halls of Residence for 100 male students.

SCHOLARSHIPS. One post-graduate scholarship, £500 p.a. for 2 yrs., to enable a student of Chinese race or descent to visit and continue his studies at any Univ. or Univs. in Gt. Britain or Ireland approved by the President. The John Anderson Scholarship, awarded from time to time to British subjects of any race or creed of either sex born in the Straits Settlements or Federated or Unfederated Malay States, to enable the scholar to study at Raffles College. The scholarship is awarded for 3 yrs. Two other scholarships, the Singapore Bar Committee Scholarship and the Kelantan Scholarship, will be awarded when the accumulated funds permit. There are awarded annually by the College ten entrance scholarships of \$720 p.a. tenable for 3 yrs., and a number of Exhibitions tenable for 1 and 2 yrs.

PUBLICATION. *Calendar* (February).

## THE YEAR 1936–37

DEATH. R. Arakie (Economics).

STUDENTS. Full-time: 112. Part-time: 2, both graduates.

# THE IMPERIAL COLLEGE OF TROPICAL AGRICULTURE, ST. AUGUSTINE, TRINIDAD, B.W.I.

Founded 1921

Cable Address : " Stomata," Port-of-Spain.

CHAIRMAN OF THE GOVERNING BODY—ERIC MACFADYEN.

VICE-CHAIRMAN—Lieut.-Col. Sir DAVID PRAIN, C.M.G., C.I.E., LL.D.,  
F.R.S.

PRINCIPAL—Sir GEOFFREY EVANS, C.I.E., M.A., Dip.Agr. Camb.

DEAN—G. G. GIANETTI, M.A., Dip.Agr. (Econ.) Camb.

COMMISSIONER OF AGRICULTURE—G. A. JONES, Dip.Agric. Bangor.

ASSISTANT COMMISSIONER OF AGRICULTURE—C. C. SKEETE, B.A. Camb.

SECRETARY—Sir ALGERNON ASPINALL, C.M.G., C.B.E., B.A., 14 Trinity  
Square, London, E.C.3.

REGISTRAR, EDITOR, AND LIBRARIAN—G. G. GIANETTI, M.A., Dip.Agr.  
(Econ.) Camb.

BURSAR—G. R. LANGDALE, A.C.A.

## TEACHING STAFF

### *Agriculture*

Wood, R. C., M.A., Dip. Agr.  
Camb. (to 30.9.38). Prof.

Harrison, E., C.M.G., B.Sc. Edin.,  
M.S.A. Iowa, N.D.A. (from  
1.10.38). Prof.

Paterson, D. D., B.Sc. Agric. and  
For. Edin. Reader.

### *Botany and Genetics*

Cheesman, E. E., M.Sc. Lond.,  
A.R.C.S. Prof.

Dodds, K. S., B.Sc., Ph.D. Lectr.

### *Chemistry and Soil Science* [Prof.

Hardy, F., M.A., Dip.Agr. Camb.

Humphries, E. C., B.Sc., Ph.D.  
Lectr.

### *Economics*

Shephard, C. Y., B.Sc. (Econ.)  
Lond. Prof.

### *Mycology and Bacteriology*

Baker, R. E. D., B.A. Camb.,  
A.I.C.T.A. Officer in Charge.

### *Sanitation and Tropical Hygiene*

Dickson, J. R., O.B.E., B.Sc.,  
M.B., C.M. Edin., D.P.H.

Eng., D.T.M. Liv.  
Med. and Health Officer.

### *Sugar Technology*

Davies, J. G., A.I.C.T.A.  
Sugar Technologist.

### *Veterinary Science*

Metivier, Capt. H. V. M., O.B.E.,  
B.Sc.Vet.Sc. Lond., M.R.C.V.S.  
Lectr.

### *Zoology and Entomology*

Adamson, A. M., M.A., B.Sc.,  
Ph.D. Calif. (Entomol.)  
Reader in charge.

Callan, E. McC., B.Sc., A.R.C.S.  
Lectr.

### *Low Temperature Research*

Wardlaw, C. W., D.Sc., Ph.D.  
Glas.

Leonard, E. R., B.Sc., A.R.C.S.  
 Lond.

*Cacao Research*

Voelcker, O. J., M.A., Dip.Agric.,  
 A.I.C.T.A.

Barnell, H. R., B.Sc., Ph.D.

Cope, F. W., B.Sc., A.R.C.S.

## GENERAL INFORMATION

Incorporated in Sept. 1921 and reincorporated by Royal Charter on Nov. 23, 1926, the College aims at promoting the study of and conducting research in tropical agriculture in suitable surroundings and creating a body of British expert agriculturists well versed in the knowledge of the cultivation of land in the tropics, of chemists, and of scientific advisers possessing an intimate knowledge of the means of combating pests and diseases. The College buildings are at St. Augustine, near St. Joseph, Trinidad, on land granted by the Govt. of Trinidad and Tobago. The Imperial Dept. of Agric., which was founded in 1898 and was amalgamated with the Coll. on April 1, 1922, is now known as the Agricultural Advisory Dept. of the College, and is administered by the Commissioner of Agriculture. The post of Commissioner of Agriculture was separated from that of Principal of the Coll. as from April 1, 1927. The Commissioner serves as a liaison officer between the Coll. and the several island govts. He supervises the botanic and experiment stations located at St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands. The College acts in a consultative capacity to the Govts. of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda in agricultural matters, including the teaching of agric. in schools. The staff was strengthened by the appointment on July 1, 1929, of an Asst. Commissioner of Agriculture. The headquarters of the Dept. were transferred to Trinidad in Sept. 1922.

The foundation stone of the new buildings and laboratories was laid by Sir Samuel Wilson, Governor of Trinidad and Tobago, on January 14, 1924. An Instructional and Experimental Sugar Factory, towards which British sugar machinery manufacturers contributed plant worth £20,000, was opened in 1925. A Low Temperature Research Station for work on bananas and other tropical fruits was completed in September 1929. An Agricultural Field Office, and a new Chemical Block, in which the Dept. of Sugar Technology is also housed, were completed in August 1929. The Milner Hostel and College Dining Hall were completed in 1927. A Cacao Research Scheme was inaugurated in 1930. This is financed by contributions from the main cacao-growing Colonies and from some of the more important British cocoa and chocolate manufacturers. A Plant Quarantine Station to serve the British West Indies, British Guiana and British Honduras was completed in 1933.

The income of the College is derived from contributions by the principal West Indian colonies, Nigeria, the Gold Coast, Sierra Leone, the Imperial Government, the Empire Cotton Corporation, and the British Cotton Growing Association.

The academic year extends from October 1 to June 30.

**COURSES.** (1) A 3 yrs.' course leading to a *Diploma* (Dip. Agric. I.C.T.A.) either (a) in Agriculture or (b) with special qualifications in Sugar Technology; designed primarily to give instruction in West Indian agriculture; admission is limited to students from the Caribbean area, save in exceptional circumstances.

(2) A one-year course leading to the *Associateship* of the College, open to post-graduate students and to Colonial Office cadets selected for the Colonial Agricultural Service.

(3) A one-year course leading to the *Associateship* with special qualifications in Sugar Technology, open to post-graduate students with previous training in Sugar Technology.

(4) Refresher and other courses by arrangement.

**POST-GRADUATE RESEARCH.** Facilities are provided for work in connexion with problems arising in tropical agriculture, and more especially those connected with entomology, plant pathology, agronomy, physiological botany, and sugar technology.

**TUITION FEES.** Diploma Courses, £50 p.a., but a limited number of students from contributing Colonies and industries are admitted, on the nomination of the respective local Govts. and industries, without the payment of tuition fees; other students from contributing Colonies, £25 p.a.; Foreign Students, £100 p.a. Associateship and Refresher courses, £75 p.a.

**EXPENSES.** The following figures are given as an approximate estimate for students coming from a country to which they cannot return for the long vacation: Living, \$60 (£12:10s.) per month (1st and 2nd yrs. 12 months), each £150; 3rd yr. 9 months (£112:10s.). Subscriptions, say £5 p.a. Books, tours, pocket money, etc., a minimum of £60 (1st yr.), £75 p.a. (2nd and 3rd yrs.). To these must be added the College fees above set out, and also cost of passage to Trinidad in the first, and from it in the third year. In the case of students attending the College for one year, the expense will be approx. that of the third year, with the cost of return passage added.

**STUDENTS FROM INDIA AND FOREIGN COUNTRIES.** Applications from Indian students for admission to post-graduate and special courses should be submitted through the High Commissioner for India.

The Academic Board will consider applications from students who are not British subjects on their producing evidence of having attained a standard equivalent to that prescribed by the regulations and of possessing an adequate knowledge of English. Such applications should be made through a British Consul, whose recommendation should also be obtained.

**PUBLICATIONS.** *Prospectus*; *Principal's Report*; *Tropical Agriculture* (monthly); *Memoirs and Reports*.

## THE YEAR 1936-37

**EXTRA-MURAL WORK.** Visits of College officers to neighbouring colonies in the Caribbean area.

**STUDENTS.** Full-time, 44; graduates, 11; preparing for diploma, 31; special course, 1. Refresher course, 1.

**DIPLOMAS.** 9.

**ASSOCIATESHIPS.** 14.



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# I

## QUALIFICATIONS FOR ADMISSION TO A FIRST DEGREE IN THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND

### GENERAL OUTLINE

This Appendix relates only to the admission of students proposing to take full courses for a First degree.\* A comparison of the university regulations regarding admission discloses a general agreement in principle, with divergencies in application. Before inserting a student's name in *matricula* all Univs. exact evidence that the applicant's intellectual equipment fits him to undertake a course of study for a degree. This is tested either by a matric. examn. held by the Univ. or group of Univs. concerned, or by the candidate's performance in an equivalent examn. Many of the Oxford and Cambridge Colleges make the passing of Responsions or the Previous or equivalent examns. a condition of admission to the College. Bristol has discontinued its matricn. examn. as superfluous in view of the institution of the School Certificate and Higher Certif. examns., and the admission to them of candidates not presented by schools. Durham has followed Bristol's example so far as the Newcastle Division is concerned. Reading holds neither school examns. nor, except for candidates of mature years (23 or over), a matriculation examn., accepting, instead, credentials required by London or the Northern (English) Universities Joint Board.

A Matriculation Examination for persons of mature years has been instituted by the above-mentioned Joint Board, and by London, Durham (King's College), Belfast, and Reading (*see* thereunder).

SCHOOL EXAMINATIONS.—ENGLAND AND WALES. A scheme originated by the Board of Education in consultation with all the Univs. of England for co-ordinating Secondary School examns. came into operation in England in 1918 and in Wales in 1920. Under this scheme the following are recognized by the Board—

I. As approved "First Examinations," suitable for pupils about the age of 16, the standard being such that a Pass with Credit in a certain number of subjects (generally 5) in the three main groups of School

\* For conditions regulating the recognition of study at other Universities and admission for Higher degrees *see* pp. 7-14 and under the several Universities.

Students desiring to study in a University without intending to graduate are generally admitted if they satisfy the authorities that they are qualified to profit by the course of study they propose to take, and if accommodation is available for them. *See also* pp. 64 and 267.

subjects (English subjects, Foreign Languages, Mathematics, and Science) would entitle a candidate to admission to a Univ. :—

School Certificate examns. of the Oxford and Cambridge Schools Examn. Board, of the Oxford Delegacy for Local Examns. and the Cambridge Local Examns. Syndicate (formerly known as Senior Local examns.), of the Univs. of Bristol and Durham, and of the Northern (Birm., Leeds, Liv., Manc., Sheff.) Univs. Joint Matricn. Board; the General School examn. of London; and the School Certificate examn. of the Central Welsh Board.

In addition to the three groups of subjects above mentioned, First Examinations include a fourth group of optional subjects, such as Music, Drawing, Manual Work, Needlework, Housecraft. Excellence in these subjects will not exempt a candidate from the necessity of reaching a minimum standard in each of the other groups.

II. As approved Second Examinations, suitable for pupils about 2 years older, framed on the assumption that the candidate has, after the stage marked by the first examn., followed a more specialized course :—The Higher Certificate examns. of the Oxford and Cambridge Schools Examns. Board, Bristol, Durham, the Northern Univs. Joint Board, London, Oxford (Delegacy for Local Examns.), Cambridge (Syndicate for Local Examns.), and the Central Welsh Board.

With a view to securing equality of standard and the acceptance of the certificates by Univs. and Professional Bodies, the Board of Education exercises a co-ordinating authority with the help of a Secondary School Examinations Council composed of 22 representatives of the Examining Bodies, County Councils Assocn., Assocn. of Municipal Corporations, Assocn. of Education Committees, and Teachers' Registration Council under a Chairman appointed by the Board of Education. The Examinations Council keep in close touch with the Examining Bodies and conduct a regular scrutiny of their statistics, regulations, and syllabuses. In addition a detailed investigation of the methods and standards of award is held from time to time. Provision is made for ensuring that teachers in the Schools are brought into touch with the Examining Bodies; that a School is examined, if it so desires, on its own syllabus, unless the Examining Body considers it inadequate; and that estimates of the merits of their candidates in each of the subjects offered by them, if submitted by Head Masters and Head Mistresses, are taken into account in the award of certificates.

Schools are not required as a condition of recognition for grants from the Board of Education to take these examns., but Schools on the grant list entering pupils for them under conditions approved by the Board receive an additional grant in respect of the examn. fees of each pupil so entered. The entrance of pupils attending grant-earning secondary schools for any examination below the stage of a First Examn. is closely restricted.

Among the functions of the Secondary School Examns. Council is negotiation with Univs. and Professional Bodies for the acceptance of the examn. certificates as exempting the holders from certain other examns. They are now accepted, subject to various qualifications, by all English Univs. and by a number of professional bodies (*see*



Appendix IV.), as exempting from entrance examns. The Second Examinations are also recognized by many Univs. for exemption from Intermediate Examns. and for admission to Honours courses, etc.

The Higher School Certificate qualifies for exemption from the Intermediate degree examns. in the faculties of arts, pure science, and applied science, subject to certain conditions, at Durham and Bristol; also from the pre-registration examn. in physics and chemistry in the Faculty of Medicine at Durham; in science and engineering and in chemistry and physics for first B.D.S. (Parts A and C) at Liverpool; in arts, science, engineering, and metallurgy at Birmingham; from certain courses in arts at Manchester and Leeds; and from the external and internal degree examns. in arts, science, economics, and commerce of London Univ., either in whole or in part, according to the subjects taken; at Reading, for exemption or partial exemption from the Inter. Examns. in the faculties of letters, science, agriculture, and horticulture, subject to certain conditions; at Sheffield exemption from the Preliminary Examn. in Chemistry and Physics for medical students and Pre-Registration Examn. in Chemistry and Physics for dental students may be obtained by students who have satisfied the examiners in Chemistry, theoretical and practical, and Physics, theoretical and practical, taken as two full group subjects in the Higher School Certificate Examn. (*See below under each Univ. or group of Univs.*)

WALES. The School Certificate of the Central Welsh Board showing a pass with credit at one and the same examn. in all the required subjects of the matricn. examn. is accepted by the Univ. for matricn.; so, also, are certifs. of other First Examns. (*See below.*)

SCOTLAND. On December 31, 1918, there came into operation Ordinance No. 70 (General No. 3) of the University Courts of the four Scottish Univs. as to Admission for purposes of graduation. This defines the normal test of fitness as "the production of evidence duly attested by a competent authority of the satisfactory completion of a suitable course of secondary education," and sets up an Entrance Board to regulate the application of this principle. This Board has provided by General Regulations for the recognition of Group Certifs. of the Scottish Education Dept. and, in the case of Schools in Scotland not regularly presenting candidates for these certifs., other evidence of completion of suitable courses. It has similarly provided for the recognition of Leaving or other certifs. in the case of applicants from outside Scotland. The admission of applicants who, owing to exceptional circumstances, have not been able to fulfil the normal conditions is provided for by Special Regns. (*See below.*)

IRELAND. The Leaving Certificate of the Dept. of Education of the Irish Free State or the Senior Certificate of the Ministry of Education of Northern Ireland is accepted by the Univ. of Dublin and the National Univ. of Ireland, subject for subject, in lieu of their matricn. examns., and (subject to special conditions in respect of Maths.) by Belfast. Belfast and the N.U.I. also accept, subject for subject, certain other certificates. (*See below.*)

ADMISSION OF STUDENTS FROM THE KING'S DOMINIONS OVERSEAS AND FROM FOREIGN COUNTRIES. As regards a student educated in another country the regulations are drafted on the understanding that the application of the ordinary entrance tests might be inappropriate owing to these tests having been framed with reference to secondary education curricula different from those which obtain in his own country, or to the student having reached a stage in his education at which the passing of ordinary entrance tests would involve a wasteful repetition of preparatory studies. They accordingly provide for the acceptance from such a student of other evidence of academic qualifications: ordinarily, *certifs.* (*e.g.* Dominion Matriculation examns., Abiturienten-examen, Baccalauréat), which would entitle to admission to a Univ. in the student's own country, together with such further evidence as may be necessary to ensure that no student shall be admitted to a course of study for a degree without a reasonable prospect of his being able to pursue it to graduation; in particular, if the student be one whose mother tongue is not English, evidence that he has a sufficient mastery of this language to enable him to follow courses of instruction conducted in English. When certificates are in a foreign language they should ordinarily be accompanied by a certified English translation. Unless the certificate shows on its face that it would admit the holder to a Univ. in his own country it should be accompanied by an authenticated declaration by a Government official, or Official of an Embassy, Legation or Consulate of the country to which the applicant belongs, testifying that the certificate would entitle the holder to enter on a regular course of study in a Univ. or Technical Coll. affiliated to a Univ. in that country. Intending students should apply for information to the Registrar of the Univ. in which they desire to be matriculated. The regulations are summarized below under each Univ. or group of Univs.

SCHOOL EXAMINATIONS IN OTHER COUNTRIES are also recognized for admission to the Univs. of the United Kingdom. (*See* below under each Univ. or group of Univs.)

### SPECIFIC CONDITIONS

Candidates for admission to a University in Great Britain or Ireland, unless they are graduates of a recognized University, must have passed the appropriate Matriculation Examn. of that Univ. or they must have passed an alternative exempting examn. The exempting examns., indicated by a number in this Appendix, are as follows:

1. Oxford Responsions;
2. Cambridge Previous;
3. London Matriculation;
4. Durham Matriculation (for the Durham Colleges);
5. Wales Matriculation;
6. Joint Board of Northern English Univs. (Birm., Leeds, Liv., Manc., Sheff.) Matriculation (if gained before Dec. 1, 1937);
7. Joint Board of Northern English Univs. Certificate (a) Higher, (b) School;

8. Oxford and Cambridge Schools Examn. Board's (a) Higher, (b) School ;
9. Oxford Local Examns. Delegacy (a) Higher, (b) School ;
10. Cambridge Local Examns. Syndicate (a) Higher, (b) School ;
11. Bristol Certificate (a) Higher, (b) School ;
12. Durham Certificate (a) Higher, (b) School ;
13. London General School ;
14. Central Welsh Board's (a) Higher Certificate, (b) School ;
15. Scottish Education Dept. Leaving Certificate ;
16. Scottish Universities Entrance Board Preliminary Examn. ;
17. Northern Ireland Secondary School Examn. Senior Certificate ;
18. Belfast Matriculation ;
19. National University of Ireland Matriculation ;
20. Irish Free State Leaving Examn. Certificate ;
21. Dublin, Trinity College, Matriculation ;
22. Army Education Certificate.

These examns. may be grouped as follows :

Higher School Examns. 7 (a), 8 (a), 9 (a), 10 (a), 11 (a), 12 (a), 14 (a).

School Certificates. 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15, 17, 20.

Matriculation. 1, 2, 3, 4, 5, 6, 16, 18, 21.

In addition certain Universities, *e.g.* those grouped under the Joint Board (No. 6 above), and Durham University, have special regulations for individual faculties (as to the subjects to be taken at the qualifying Entrance Examn.). The Scottish Universities have regulations as to subjects taken at the Entrance Examn. which affect admission to specific classes. The Universities also include certain examns. other than those enumerated above as qualifying for admission. These examns. and the conditions affecting them are referred to in the text below under each University or group of Universities.

## THE NORTHERN (ENGLISH) UNIVERSITIES JOINT BOARD

BIRMINGHAM, LEEDS, LIVERPOOL, MANCHESTER, AND SHEFFIELD

The examns. held at each of these Univs. (School Certif. and Higher School Certif. in July, also School Certif. and Higher School Certif. Subsidiary subjects in September) are conducted by a Joint Board. Further information may be obtained from the Secy. (J. M. Crofts), 315 Oxford Road, Manchester 13.

I. A candidate is qualified to enter upon a degree course at one of the five Univs. if he holds : (a) A School Certif.\*, and (b) *either* (i.) a Higher School Certif., *or* (ii.) a certifying letter that he has passed at one and the same Higher School Certif. Examn. in four approved subjects at or above the Subsidiary standard.

II. The School Certif. Examn.\* and the Higher School Certif. Examn. of the following bodies are accepted in addition to those held by the Board :

\* Certificates awarded on a lower standard of pass in Group II. or in Group III. are not accepted.

- (i.) The Oxford and Cambridge Schools Examn. Board.
- (ii.) The Oxford Local Examn. Delegation.
- (iii.) The Cambridge Local Examn. Syndicate.
- (iv.) The Univ. of London.
- (v.) The Univ. of Durham.
- (vi.) The Univ. of Bristol.
- (vii.) The Central Welsh Board.

III. A Certificate of having passed any one of the following examns., 1, 2, 3, 4, 5, 16, 17, 18, 19, 21 (*v. supra*, paragraph headed "Specific Conditions") will be accepted in lieu of a School Certif. under I. above. The Examn. for Trained Certificated Teachers and the Intermediate Certif. Examn., Dept. of Education, Irish Free State, are also accepted for this purpose.

IV. Alternative to the requirements set out in I. above, a candidate is entitled to enter upon a degree course if he holds any one of the following :

- (i.) A degree conferred by an approved Univ. after examn.
- (ii.) A Certif. of having passed an Intermediate Examn. of the Univ. of London.
- (iii.) The Leaving Certif. of the Scottish Education Dept. under certain conditions.
- (iv.) The Leaving Certif. of the Dept. of Education, Irish Free State, under certain conditions.
- (v.) The Matriculation Certif. of a British Overseas Univ.
- (vi.) A Certif. of having passed at one and the same examn. the Intermediate Examn. in Arts, Science or Medicine of an approved Indian Univ.
- (vii.) The Matriculation Certif. of the Palestine Board of Higher Studies.
- (viii.) The Secondary Education Certif. Part II. of the Egyptian Ministry of Education.
- (ix.) A foreign examn. certif. which entitles him to enter on a Degree course in all Faculties of a recognized Univ. of the country in which the certificate was issued.
- (x.) A certificate showing that the holder is a Barrister or a Solicitor having passed the Final Examn. of the Law Society (Faculty of Law only).
- (xi.) The Special Army Education Certif. at the Advanced Standard, duly attested.

V. Until November 30, 1942, candidates will be admitted to a Degree course in Law (LL.B.) or in Architecture (B.Arch.) if they fulfil the requirements for a Matriculation Certif. or for a certif. of exemption as defined by the Board's Regulations for the award of School Certifs. and Matriculation Certifs., 1937, and provided also that they have satisfied any special requirements demanded by the Faculty concerned.

VI. For candidates who may not be able to satisfy any of the foregoing conditions a Special Examn. will be held ; candidates must be 17 years of age on or before July 31 of the year of examn. and must satisfy the examiners in English Language and in five other subjects. Entries will be received up to April 25.

VII. An examn. for candidates of mature years (age 23 or over on

May 1 of year of application) will be held. Applications will be received up to May 1.

VIII. An examn. for candidates who have been engaged in industry (age 19 or over on July 31 of year of application) will be held. Applications will be received up to April 25.

Candidates who hold Matriculation or other certificates awarded before December 1, 1937, which qualify them to enter upon a degree course under regulations in force at the date of award, will still be eligible to enter upon such a course.

*N.B. —Birmingham.* Applications from overseas students must be received on or before June 1.

*Leeds* receives applications from persons resident outside the United Kingdom up to May 31.

At *Liverpool* the Senate, after report from the faculty concerned, determines before registration whether the applications of foreign, Egyptian, or Indian students shall be accepted. Applications for registration from such students must be received before Oct. 1 in each year, and must be accompanied by detailed references certifying as to character and educational qualifications. Students, except candidates for the School of Architecture, who cannot present a Certificate issued by an approved Institution in their country of origin or by another approved Institution, stating that they are able to use English for the purpose of their work, will be required, before admission to courses of study in the Univ., to submit themselves to a test in the language. Such students must submit their applications for admission not later than Oct. 1 in each year.

### *Special Regulations for Entrance to Faculties*

**BIRMINGHAM.** Candidates entering the *Arts* faculty, except those taking a degree in Music, or an Honours degree in German, Geography or Economics, must have passed in Latin (or Greek) and a Modern foreign language at subsidiary Higher School Certif. standard. For entrance to the Honours courses referred to, two Modern foreign languages are required.

*Law.* Candidates for the LL.B. must have passed in Latin.

*Science.* Those taking B.Sc. in Pure Science are recommended to take both French and German.

*Medicine.* Candidates are required to pass in Chemistry at subsidiary Higher School Certif. standard.

**LEEDS.** For admission to courses for the B.A. a Latin or Greek qualification is required.

*Medical and Dental* students are ordinarily required to have passed in Maths. at a School Certif. or equivalent examn.

*Admission to Advanced Standing.*—Subject to a minimum attendance in this Univ. of 2 yrs., members of other Univs. requiring residence as a condition of graduation may be permitted to count their studies and examns. (other than the Final examn.) therein towards graduation in Leeds.

LIVERPOOL. Candidates for the B.A. are required to have passed in Latin or Greek or, in approved instances, another classical language at matricn. standard.

*Engineering.* Students are recommended to pass in Maths. (with the paper in Additional Maths.) and one or two of : Mechanics, Physics, Chem. Students in Metallurgy are recommended to include Chem. in the Higher School Certif. Examn.

*Medical and Dental* students must have passed in Maths.

MANCHESTER. Students entering for the following degree courses must have reached the credit standard in a School Certif. examn. in the subjects named or give evidence of having attained an equivalent standard. 1. Hons. Schools in *Arts* (save Archit., Econ., Philos., Geog. and Oriental Studies)—Latin (or in certain cases Greek), unless prepared to devote 4 yrs. to the course. 2. *Science*—Maths. and Mechanics. 3. *Law*—Latin. 4. *Medicine*—Latin, Maths., and Mechanics. 5. *Dentistry*—Maths. and Mechanics. 6. *Technology*—Maths.

SHEFFIELD. *Arts*.—Candidates for the Intermediate Examn. who propose to offer a language or languages in which they have not passed in the recognized qualifying examn. for entry upon a degree course, must before admission to full Intermediate Courses satisfy the Heads of the Depts. concerned that their knowledge of the language or languages is sufficient for them to profit by the course in the subject or subjects. This regulation applies also to Music. Candidates who have passed with credit in either Latin or French in the School Certif. Examn. may be admitted to the full Intermediate Course in Spanish without any previous knowledge of that language. Candidates who offer a Modern Language (other than Russian) or English or Ancient or Modern Hist. or Philos. are recommended (but not required) to offer Greek or Latin also.

*Law* students must have qualified in Latin.

*Engineering* students should present Maths. and include Mechanics or Physics or Chemistry.

*Metallurgy* students should present Maths., Physics, and Chemistry.

## BRISTOL

The University holds no Matriculation Examn. but recognizes the exempting examns. set forth below as qualifying for matricn., provided that the following requirements of the several Faculties are fulfilled :

Students intending to pursue a course for a degree in the Faculty of Arts must pass with credit in either Latin or Greek ; for B.A. in Commerce they must pass with credit in a modern foreign language and in either Maths. or a Classical language ; in the Faculties of Science, Medicine or Engineering must pass with credit in Maths. ; in the Faculty of Law must pass with credit in Latin or give evidence of such proficiency in Latin as may be satisfactory to Senate.

### *Exempting Examinations*

*Great Britain and Ireland.* (a) Nos. 1, 2, 3, 4, 5, 6, 16, 18, 19, 21, 22 ; also 7 (a), 8 (a), 9 (a), 10 (a), 11 (a), 12 (a), 14 (a), provided candidates

hold a First School Certificate; and 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15, 17, 20, with credit in 5 subjects taken at one and the same time, which must comprise (1) either English as a full subject, or English Lang. together with Hist.; (2) Maths. or Latin or Gk.; (3) three other subjects not already taken under (1) and (2) from the following: Engl., Hist., Geog., Music or Art or Relig. Knowl., Gk., Latin, French, German, any other approved lang., Maths., Mechs., Physics, Chem., Bot., Biol., Physics with Chem., Geol., Elem. Sci. Provided that candidates who take Maths. under (2) must include a lang.; candidates who take Latin or Gk. under (2) must take Maths. or a Sci.; candidates who take Biol. may not take Bot. and candidates who take Physics with Chem. may not take Physics or Chem.

(b) Trained certificated teachers' qualifications under certain condns.

(c) Barristers-at-law and Solicitors of the Supreme Court.

(d) Gradn. in a Univ. in the U.K. or in some other approved Univ.

(e) Sufficient qualification for original research in case of candidate for a research degree.

(f) In exceptional circumstances sufficient education and attainments in the case of candidates over 23 yrs.

*Overseas Students.* A candidate educated elsewhere than in the U.K. may submit to the Senate evidence of having passed examns. elsewhere equal to the Matricn. Examn. of any Univ. of the U.K., or to any of the other examns. which qualify for matricn. at Bristol; if from an Oriental country, he must submit evidence of previous education in his own country and of ability to follow instruction given in English.

*Palestine.* The Palestine Matriculation Certif. is accepted for exemption provided it shows a pass in English under Syllabus A, and that the 6 subjects in which the candidate has passed include 5 which conform to the matricn. requirements of the Univ. The Senate may thereupon, if satisfied with the evidence, declare him eligible for matricn.

### CAMBRIDGE

To become an undergraduate member of the Univ. a person must first be admitted as a member either of a College or of Fitzwilliam House (Non-Collegiate). No person, except Research Students (*see* p. 68) and certain others, may be matriculated who has not passed or been exempted from the Previous Examn.

For admission, application should be made to the proper officer: the Tutor for Admissions, Christ's; the Senior Tutor, Gonville and Caius, St. John's, Cath., Down.; the Tutor, Clare, Corp., Pet., Trin. H.; one of the Tutors, Trin.; the Provost or Tutor, King's; the President, Queens'; the Master, Emm., Jesus, Magd., Pem., Sid., Sel.; the Censor, Fitzwilliam House; the Secretary, Girton; the Principal, Newnham. It is advisable to apply at least 12 mos. beforehand.

The *Previous Examination* comprises: I. (a) Latin, (b) Greek, (c) French, (d) German, (e) Italian, (f) Spanish; II. (a) Maths. (elementary), (b) Maths. (less elementary), (c) Experimental Physics and/or Chemistry; III. (a) English essay, précis writing, and other tests of the understanding and use of English, (b) Holy Scripture (a Gospel or the Acts of the Apostles), (c) English History.

Candidates must pass in two of the languages in Part I., including (a) or (b), in II. (a) and either II. (b) or II. (c), and in III. (a) and either III. (b) or III. (c). The three parts may be taken separately.

Natives of Asia or Africa, not being of European descent, may offer English literature in lieu of one of the languages [other than (a)] in Part I., and Arabic, Chinese, Sanskrit, or Pali, in lieu of I. (a).

### *Exempting Examinations*

*Great Britain and Ireland.* Exemption, complete or partial, is obtainable under certain conditions by means of School Certificates, Matriculation Certificates, etc. (*see below*); Higher (School) Certificates; Certificates of Graduation at any Univ. in Great Britain, except Reading; Certificates of the Navy, Army, and Air Force Entrance Examn. and the Dartmouth Passing Out Examn.

*Matriculation Certificates, etc.* Certificates of approved examns. (*see below*) give exemption from the whole Previous Examn., for passes in Latin or Greek, in a subject of Schedule A (*see below*), in English, and in a fourth subject; from all but Latin or Greek, for passes in a language other than English or Latin or Greek, in a subject of Schedule A, in English, and in a fourth subject; from Part I., for passes in Latin or Greek, and in a second language other than English; from Part II., for a pass in a subject of Schedule A; from Part III., for a pass in English.

Schedule A comprises Maths.; Elem. Maths.; Higher Maths.; Mechanics; Physics; Chem.; Physics and Chemistry; Gen. Sci.; Biol.; Bot.; Zool.; Nat. History; Heat, Light and Sound; Electricity and Magnetism.

The approved examns. and certificates are Nos. 1, 3, 4, 5, 6, 16, 17, 18, 19, 21, and examns. subsequent to Matricn., held by any of these Univs. Also Nos. 7, 8, 9, 10, 11, 12, 13, 14, 20, if passed *with credit*, and 15 under certain other conditions. Supplements or endorsements of certificates are taken into account, and exemption may be granted upon the joint evidence of two or more certificates.

Exemption is also given to Commissioned Officers of H.M. Forces who are resident in Cambridge under the orders of the Naval, Military, or Air Force Authorities; and may be given to foreign officers under similar conditions.

*Dominions.* The Matricn. Examns. of Univs. of Dalhousie, McGill, Manitoba, New Brunswick, New Zealand, Queensland, Saskatchewan, Sydney, Toronto, and the S. African Univs.; examns. normally recognized for purposes of matricn. by the Univs. of Adelaide, Alberta, British Columbia, Melbourne, Queen's (Kingston, Ont.), Tasmania, W. Ontario; and examns., subsequent to matricn., held by any of these Univs.

*India.* A candidate who has obtained a 1st class in the Intermediate Examn. in Arts or Science, or a 1st or 2nd class in the examn. for the B.A. or B.Sc. in an approved Indian Univ., is exempted from the Previous Examn., provided that in some examn. leading up to the B.A. or B.Sc. in that Univ. he has passed in Arabic, Persian, Persian-with-Arabic, Sanskrit or Pali, in Maths. or Science, and in English. Univs. approved for this purpose are the "Associated Institutions"



(see below, p. 815), together with the Univs. of Andhra, Benares, and Nagpur.

A candidate who has obtained a First Class in the Intermediate Examn. held by the Board of High School and Intermediate Education of the United Provinces of India, or by the Board of High School and Intermediate Education, Rajputana, Central India, and Gwalior, or in the Intermediate Examn. of the Board of Intermediate or Secondary Education, Dacca, is exempted if either in this examn. or the High School Examn. which leads up to it he has passed in a classical language, Maths., English, and History or Geography.

*Hong-Kong.* Hong-Kong School Certificate if it qualifies for admission to the Univ. of Hong-Kong subject to conditions attached to the recognition for the purposes of exemption from the Previous Examn. of the Cambridge and Oxford School Certificates, or the Matriculation Examn. of Hong-Kong Univ.

*Europe.* The holder of a certificate qualifying him for admission without further examn. into the Univ. of any European State may be exempted from Part I. if the certificate includes two languages, other than his mother tongue, of which one is Latin or Greek; from Part II., if it includes Mathematics or Science; from Part III., if it includes a modern language, which may be his mother tongue, other than that used for exemption from Part I.

*U.S.A.*—A student who has either (a) passed the examn. of the Coll. Ent. Examn. Bd. for admission to a Univ. or Coll. of the U.S.A., or (b) qualified for admission to a Univ. or Coll. of the U.S.A. which is an "Associated Institution"; and in the Bd.'s examn., or in examns. conducted by the Assoc. Inst., or partly in one and partly in the other, has obtained the requisite units (or an equivalent standard), may be exempted from Part I., for 4 units in Latin or Greek, and 3 units in a second language other than English; from Part II., for 3 units in Maths. or Sci., or partly in Maths. and partly in Sci.; from Part III., for 3 units in English.

*Egypt*—Holders of the Egyptian Government Secondary Education Certif. who are not of European parentage are exempted from Parts II. and III., and also from Part I. provided that in one at least of the two examns. for the Certificate they have passed in French.

*Palestine*—A student of non-European descent who has been awarded a scholarship by the Govt. of Palestine for study at Cambridge is exempted if he is a B.A. of the American Univ. of Beirut and if the examns. leading up to his degree include English, Maths., or Science, and one of the languages Greek, Latin, French, German, Arabic, Hebrew.

The holder of a Matriculation Certificate of the Palestine Bd. of Higher Studies who is not of European parentage is exempted from Part I., if he has passed in two languages other than English, whether taken in Group I. or Group IV.; from Part II., if he has passed in Elementary Mathematics (Group IV.), and in one of the following sciences of Group V.: General Physics; Additional Maths.; Mechanics and Hydrostatics; Heat, Light, and Sound; Elect. and Magnetism; Chem.; from Part III., if he has passed in English either in Group I. or in Group IV. In a particular case subjects passed in the Intern. or the Final Examn. for the Arts and Science Dipl. of the Bd. may be

approved for exemption in lieu of corresponding subjects in the Matriculation Examn.

*Admission to Advanced Standing.* A graduate of an "Associated Institution" who has been a member of it for 3 yrs. is entitled to the privileges of an Affiliated Student. The "Associated Institutions" are: (1) all the Univs. of Gt. Britain and Ireland, and St. David's Coll., Lampeter; (2) in Canada—Acad., Alta., Bishop's Coll., Br. Col., Dalh., Laval, McGill, McMaster, Manit., Montr., Mt. All., New Bruns., Ottawa, Queen's, Sask., Tor., W. Ont.; (3) in Australia—all; (4) New Zealand; (5) Hong-Kong; (6) in S. Africa—all; (7) in India—Agra, Alig., Alld., Bom., Calc., Dacca, Delhi, Luck., Madras, Mysore, Panj., Patna; (8) Rangoon; (9) in U.S.A.—Amherst Coll., Bowdoin Coll., Bryn Mawr Coll., California, Cath. U. of America, Chicago, Columbia, Cornell, Dartmouth Coll., Georgetown, Harvard, Haverford Coll., J. Hopkins, Mass. Inst. of Tech., New York, Ohio State U., N. Carolina, Pennsylvania, Princeton, Radcliffe Coll., St. Louis, Smith Coll., Stanford, Swarthmore Coll., Vassar Coll., Wellesley Coll., Williams Coll., Wisconsin, Yale.

The following may also be admitted as *Affiliated Students*: (a) certain adult students recommended by the Board of Extra-mural Studies; (b) certain other students on a Grace proposed by the Council of the Senate. An Affiliated Student is entitled to (1) be exempt from the Previous Examn.; (2) reckon the first term kept by residence as the 2nd, 3rd, or 4th term for the purposes of certain provisions respecting the standing of candidates for (a) Tripos examns., or for degrees in Law or Music, and (b) degrees other than the Ordinary B.A. degree or degrees of M.Sc., M.Litt., and Ph.D.; (3) secure such a degree in certain circumstances on one part or section of a divided Tripos.

*Senior Status* may be granted to a member of the Univ. over 27 yrs. of age who is engaged in teaching or research, and carries M.A. privileges with regard to the Univ. Library, etc., academical dress and lodgings.

*Incorporation.* Admission by incorporation of graduates of Oxford and Dublin. See p. 65.

## DURHAM

### DURHAM DIVISION

A Matriculation Examn. is held for admission to the Durham Colleges only, but it admits as formerly to degree courses in Arts, Theol., and Pure Science in the Univ.

#### *Exempting Examinations*

*Great Britain and Ireland*—(a) Nos. 7 (a), 8 (a), 10 (a), 11 (a), 12 (a), 14 (a), subject to certain conditions.

(b) Nos. 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15 (Higher Hons. Grade), 17, 20, with credit in not less than 5 subjects other than Religious Knowledge and subjects in Group D, provided that at least one credit is obtained in each group.

(c) Nos. 1, 2, 3, 4, 5, 6, 16, 18, 21, provided that the foreign languages required in the Durham Matricn. Examn. are included.

(d) No. 22 under certain conditions.

(e) Success in an Entrance Scholarship Examn. under certain conditions.

(f) Graduation in a Univ. of the U.K. or of such other Univs. as may be recognized from time to time by the Matriculation Board.

*Dominions*—(i.) Irish Free State Leaving Certificate; (ii.) Newfoundland Certificate of Jnr. Associated Grade of Council of Higher Education.

*India*—Intermediate Examns. of Indian Univs.

*Colonies*—Students in Codrington College, Barbados, and Fourah Bay College, Sierra Leone, may matriculate (and qualify for degrees) locally.

*Palestine*—Matriculation Certificate of Palestine Board of Higher Studies, provided that the conditions as to the grouping of subjects for the Matricn. Examn. are observed, and 5 credits or their equivalent have been obtained.

#### *Special Regulations for Entrance to Faculties*

*Arts or Theology.* Candidates must as a general rule have satisfied the examiners in Latin as a principal or subsidiary subject in the examns. referred to under (a) above and have obtained a credit mark in Latin in the examns. referred to under (b) above.

For the First Year Examn. for the degree of B.A., two languages, one of which must be an ancient language, are required, and the First Year courses in Latin and French assume a knowledge of the lang. in each case up to Matricn. standard.

#### NEWCASTLE DIVISION

##### King's College

(other than Medical School)

There is no Matriculation Examn. held by the Univ. for this part of the College.

#### *Exempting Examinations*

*Great Britain and Ireland*—Candidates for admission must hold the certificate of one of the following bodies :

(a) Nos. 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 17, 20, provided candidates show either (i.) Passes in 5 subjects *with credit* at one and the same examn., or (ii.) Passes in 6 subjects at one and the same examn., four of them *with credit*, or (iii.) Passes in 6 subjects *with credit* at not more than two examns. or (iv.) Passes in 7 subjects, of which five are *with credit* at not more than two examns. Subjects approved include Religious Knowledge, English, Ancient Hist., Mod. Hist., Latin, Greek, French, German, Spanish, other langs. specially sanctioned, Maths., Addnl. Maths., Mechs., Chem.-with-Physics, Chem., Physics, Bot., Zool., Biol., Geog., Econ., Genl. Science, Music, Art, Geometrical and Engineering Drawing.

(b) Nos. 1, 2, 3, 6, 15. Candidates must show either (i.) Passes in 5 subjects at one and the same examn., or (ii.) Passes in 6 subjects at not more than two examns.

(c) Nos. 7 (a), 8 (a), 9 (a), 10 (a), 11 (a), 12 (a). These examns. are recognized only for one or two additional subjects passed at a

subsequent examn. in accordance with (a) (iii.) and (iv.) and (b) (ii.) above.

(d) No. 22. Same conditions as under (b) above.

*Foreign and Colonial*—Foreign or Colonial students must produce evidence that they have passed in their own country an examn. of the requisite standard, and in approximately the same subjects as would have been required had they taken one of the recognized examns. ; and further, in the case of foreign students, that they have sufficient proficiency in English to enable them to follow a course of study with profit.

*India*—For Indian students no qualification lower than that of the Intermediate Examn. of an Indian Univ. will be considered, except that holders of the Diploma of the Thomason Engineering College, Roorkee, will be considered on their merits. Candidates proposing to proceed to a degree in Applied Sc. (Civil, Mech., Marine or Elect. Eng., Naval Arch., Mining or Metall.), who present the Intern. Certif. of an Indian Univ. must have completed that examn. in Maths., Physics, and Chem. All applications from Indian students other than those from Hyderabad, Deccan, must be made through the High Commissioner for India, Education Dept., India House, Aldwych, London, W.C.2.

#### *Special Exemptions*

(i.) Candidates educated chiefly in Scotland holding such qualifications as would admit them to a faculty in a Scottish Univ. will be admitted to the corresponding faculty in the College.

(ii.) Candidates who have attained the age of 19 and produce evidence satisfactory to the College that they have been engaged in technical or professional pursuits or in business in the United Kingdom for a period of approximately two years since reaching the age of 16, may be permitted to matriculate on passing the Special Entrance Examn., instead of one of those mentioned above. Details from the Registrar.

(iii.) Candidates of 23 or more years of age whose native language is English may be permitted to matriculate if they produce satisfactory evidence of educational attainments, but may be required to pass the Special Entrance Examn.

(iv.) In special circumstances not provided for above, candidates may apply for exemption from ordinary requirements. Such candidates may be required to pass part or all of the Special Entrance Examn.

#### *Special Regulations for Entrance to Faculties*

*Arts* (except Architecture) or *Law*. Candidates must pass with credit in Latin under (a) above or have passed in Latin under (b), (c), or (d) above.

*Architecture*. Candidates for a degree in Architecture must have passed with credit in Maths. under (a) above, or in Maths. under (b) or (d) above.

*Pure Science*, if Maths. or Physics is intended to be taken in degree course, and *Applied Science* in Engin., Elect. Engin., or Naval Architecture. Candidates must have passed with credit in Maths. under (a) above, or have passed in Maths. under (b) or (d) above.

*Pure Science*, if Maths. or Physics is not intended to be taken in

degree course, and *Applied Science* in Mining, Metallurgy, or Agriculture. Candidates must have passed in Maths.

### The Medical School

The Univ. holds no matricn. examn. for the Medical School, but recognizes School Certif. and other matricn. examns. if certain subjects are passed in the prescribed manner, and at not more than any two periods of examination. The subjects include English, Maths., an ancient language, a modern language, and a fifth subject to be chosen from a list of 15. Credits must be obtained in English, Maths., and in two out of the other three subjects. Further particulars from the Dean of Medicine.

### Exempting Examinations

*Great Britain and Ireland*—Matricn. in the Fac. of Med. of any Univ. in Gt. Britain and Northern Ireland or the Irish Free State, provided that the subjects include those required in the Fac. of Med. of this Univ. and by the General Medical Council for registration of medical students; or a degree in Arts or Science of any Univ. in Gt. Britain and Northern Ireland or the Irish Free State.

*Dominions and Colonies*—Matricn. in the Fac. of Med. of any Univ. in the British Crown Colonies or Dominions, provided that the examn. passed satisfies the General Medical Council for registration of medical students; or a degree in Arts or Science of any Univ. in the Dominions or British Crown Colonies.

*India and Malaya*—Students from India and the Malay States may be accepted for matricn. if they have passed certain approved examns. in those countries; copies of the regulations for such students are obtainable from the Dean of the Medical School.

*Foreign Students*—Matriculation in the Fac. of Med. of an approved Univ. provided that the examn. passed satisfies the General Medical Council for registration of medical students; or a degree in Arts or Science of an approved Univ.

### LONDON

The University conducts three examns. qualifying for matriculation :

- (1) The Matriculation Examn.
- (2) The General School Examn.
- (3) The Special University Entrance Examn.

(1) Three times a year in London, and twice a year in certain Provincial centres, the University holds a Matriculation Examn. open to all persons of 16 years of age and upwards. To pass, a candidate must at one and the same examn. satisfy the examiners in English, Elementary Maths., and 3 of the following : (a) Latin, (b) Greek, (c) Botany, (d) Chem., (e) Heat, Light, and Sound, (f) Mech., (g) Elect. and Magnetism, (h) General Biol., (j) Zool., (k) Geol., (l) French, (m) German, (n) Spanish, (o) Italian, (p) Russian, (q) Welsh, (r) New Testament Greek, (s) any other approved language, (t) History—Roman, or Greek, or English, or European, or of the British Empire, (u) Geog., (v) Logic, (w) Drawing—geometrical and mechanical, (x) Maths.—more advanced, (y) Music—theory, (z) Econ., (aa) Religious Knowledge. One of

the 8 subjects (a) to (n) must be included except in the case of certain Asiatic or African students or Jewish students (resident in Palestine), who may be permitted to offer one of the following in this section : Arabic, Chinese, Classical Hebrew, Pali, Persian, Sanskrit, Classical Syriac ; and one of the subjects offered must be a lang. other than English. Candidates may present two special Oriental langs. under certain conditions. At the Intermediate Examn. in Arts it is compulsory to offer (a) or (b), whether taken at the Matricn. examn. or not. Law students are advised to offer (a) and English History.

This examn. may also be held in any of the British Dominions or Colonies, and certain Protectorates and Mandated Territories and at centres outside the Empire upon the application of His Majesty's Representative in the countries concerned.

(2) The Examinations for School Certificates are held only in Schools inspected by the Univ. or under other approved inspection ; the course of study in the school must also be approved. The examns. are of 2 grades : I. Higher, II. General ; for I. the Higher School Certif. and for II. the General School Certif. respectively. These Certifs. are not awarded until the pupil leaves school. The examn. fees are £3, Higher ; £2 : 5s., General. At the General candidates may qualify for exemption from Matricn., and at the Higher for exemption from Intern. Examns. (Arts, Sci., Comm., Econ., Engin., First Medical), extra fees being payable. The combination of subjects that may be taken at the General School examn. offers greater variety than is the case in the Matricn. examn., and a pupil who reaches the necessary standard at one and the same examn. in a combination required for Matricn. is entitled on payment of the registration fee of £2 : 2s. to be registered as a Matriculated student of the Univ., if or when he has attained the prescribed age. A candidate who obtains a General School Certif. but fails to reach Matricn. standard at that Examn. may still qualify for Matricn. if he afterwards obtains a Higher School Certif.

(3) The Special University Entrance Examination is open to :— I. Persons aged 19 yrs. or over holding (a) Certifs. of Matricn. in Colonial and Dominion Univs., or (b) Indian or Foreign Certifs. from an academic or other educational authority which in the opinion of the Principal indicate a standard equivalent in their own country to that required for matricn. in this Univ. The *Palestine Matricn. Certif.* is included under this head. II. Persons over 23 yrs. of age. The Examn. is usually held in March, May, Sept., and Dec., and consists of 4 or 5 subjects, of which English and either Maths. or Logic are compulsory. English-speaking candidates are required to offer a lang. other than English. No candidate is admissible unless it is his *bona fide* intention to proceed to a degree or diploma in the Univ. All candidates must attend in London for both the written part (which lasts 2 days) and the oral part of the examn. No syllabus is published. The fee is 5 gs.

Full information regarding all these examns. may be obtained from the Secretary, Matriculation and School Examinations Council, University of London.

#### *Exempting Qualifications*

*Exemption* may be obtained by (1) graduates of any of the Univs. of

the U.K. and the following overseas Univs.: In Canada—Acadia, Alb., Br. Columbia, Dal., King's, Laval, McGill, McMaster (B.A. only), Manitt., Montr., New Bruns., Nova Scotia Tech. Coll., Queen's, Saskatchewan, Tor., Vict. (Tor.), W. Ontario; Australasia—Adel., Melb., Qld., Syd., Tas., W.A. (Arts, Sc., Agr., Eng.), N.Z.; S. Africa—Cape, Cape Town, S. Afr., Stell., Witw.; India—Agra, Aligarh, All., Andhra, Annamalai, Benares, Bom., Calc., Dacca, Delhi, Lucknow, Mad., Mys., Nagpur, Panj., Patna, Rang.; Hong-Kong; Malta; certain Univs. in countries outside the British Empire; (2) subject to certain conditions, persons who have passed the examns. numbered 2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15; (3) persons who hold the Adelaide Leaving Certif., Melbourne School Leaving Certif., Queensland Senr. Public Examn., Tasmanian Public Leaving Examn., W. Australia School Leaving Certif., Matric. Examn. Certif. of the Joint Matric. Board of S. Africa, Secondary School Senior Certif. of the Dept. of Public Education, Cape of Good Hope, Transvaal Secondary School Certif., provided that the student has reached a specified standard at one and the same examn. in English, Maths., and 3 other prescribed subjects, of which one must be Latin or Greek or French or German or Spanish (Cape of Good Hope—not Greek) or a Science.

The regns. relating to exemption from the Matricn. Examn. have been amended so that any School Certif. together with any Higher School Certif., obtained in or after 1937, of the following approved Examining Bodies will be accepted for the purpose of exemption from Matricn.: Bristol Univ., Cambridge Local Examns. Syndicate, Central Welsh Bd., Durham Univ., Northern Univs. Jt. Matricn. Bd., Oxford Local Examns. Delegacy, Oxford & Cambridge Schools Examn. Bd.

The introduction of these regns. does not exclude the existing regn. which permits a candidate to qualify for Matricn. at the School Certif. Examn. providing he obtains the necessary credits required under the regns.

### OXFORD

Admission to the Univ. ("Matriculation") is without respect of sex, age, nationality, or creed, and follows upon admission to a Society, *i.e.* a College or Hall or Society. No one can become a member of the Univ. unless he first becomes a member of one of these Societies. An application for admission must therefore be addressed, not to any officer of the Univ., but to the proper officer of the Society to which admission is desired, *e.g.* Balliol—The Tutor for Admissions; St. Catherine's Society—The Rev. the Censor; in other cases—The head of the Society. (*See* Colleges, etc. under Oxford Univ.) It should be made, if possible, a year or more before residence is contemplated, especially if rooms within the College are desired. Except for certain classes of persons the passing of an entrance examn. is a condition of admission to matricn.

The Colleges and Halls and Societies require certain qualifications of character and intellectual attainment in which the passing of *Responsions* or some equivalent examn. is necessarily included.

*Responsions* comprises: I. (a) Latin, (b) Greek; II. (a) Holy Scripture, (b) English, (c) French, (d) German, (e) Italian, (f) Spanish; III. (a) Maths., (b) Natural Science. To pass, a candidate must have satisfied the examiners *either* in both subjects from Group I. and in

both subjects from Group III., or in at least one from each group and in 4 subjects in all; he must also have passed in 2 languages other than English, and either have passed in all 4 subjects at one examn. (in which case special merit in one or more subjects may compensate for comparative weakness in any one) or in 3 at one examn. and in a fourth at a subsequent examn.

### *Exempting Examinations*

*Great Britain and Ireland, etc.*—Exemption may be obtained :

A. By persons accepted for admission as Service Students or Imperial Forest Service Students or Special Students or Senior Students, or as candidates for the degree of B.C.L. under certain conditions, or as Advanced Students, or as candidates for the Degree of B.Litt. or of B.Sc., or who hold a degree at another Univ., such degree and such Univ. having been approved by the Hebdomadal Council, or as Students of Mature Years recommended by the Delegates for Extra-mural Studies under certain conditions. Exemption may also be claimed by anyone who has pursued a course of study extending over 2 yrs. at a Univ. approved for Senior Status, provided that the applicant has passed all examns. incidental to his course at that Univ. and has submitted a certif. of satisfactory progress signed by a competent authority of that Univ.; and provided further that the required course of study at an Asiatic Univ. has included the study of English and has been pursued subsequently to the Intermed. Examn. or to the corresponding stage at a Univ. which does not hold an Intermed. Examn.

B. Subject, *inter alia*, to passing in 2 of the languages, Latin, Greek, French, German, Italian, Spanish, of which either Latin or Greek shall be one, persons who have passed a School or Higher School Certificate Examn. (7, 8, 9, 10, 11, 12, 13, or 14 (b)) or gained a class in the Final Senior Freshman Examn. of Dublin or a Scottish Preliminary Examn. Certificate, or passed any of the examns. numbered 2, 3, 4, 5, 6, 15, 17, or the Intermediate Arts or higher examn. of Birmingham, Durham, Leeds, Liverpool, London, Manchester, Sheffield, or Bristol.

*Dominions and Colonies*—Exemption may be granted to any person who has obtained (1) a certificate of having passed either (a) the matriculation examn. of the Joint Board of the South African Universities, or (b) the Secondary School Certificate Examn. of the Education Dept. of the Transvaal or (Senior Certif.) of the Cape Province, provided that it shows that he has obtained at least 60 p.c. in each of two of the languages Latin, Greek, French, German, Italian, Spanish, of which Latin or Greek must be one; or

(2) A certificate or certificates of having passed one of the following, provided he has satisfied the examiners in two of the said languages, of which Latin or Greek must be one :

Univ. of McGill Matricn., or First Year in B.A. course; Ontario Educn. Department's Middle School Examn.; Univ. of Toronto Senior Matricn., or First Year; Council of Higher Education, Memorial Univ. Coll., Newfoundland, First Year Examn.; Brit. Columbia Sen. Matricn., Brit. Columbia Jun. Matricn. (60 per cent in each of the two cases) ;



Univ. of Adelaide Public (Leaving); Univ. of Melbourne School Leaving (Class B); Univ. of Tasmania Public Leaving; Univ. of W. Australia School Leaving; New South Wales Educn. Department's Leaving Certif.; Univ. of Sydney Matricn. (the two necessary languages at the Higher Standard); Univ. of Queensland Sen. Publ. Examn.;

New Zealand Matricn. or Entrance Scholarship;

Univ. of Malta Matriculation;

Univ. of Hong-Kong Matriculation Examn.

*India*—See A above.

*Palestine*—Exemption will be granted to any Palestinian student holding a scholarship from his Govt. to enable him to pursue a course of study at the Univ., provided that he holds the Matricn. Certif. of the Palestine Board of Higher Studies, showing that he passed with credit in English (Syllabus A), and in one of the languages, Latin, Greek, French, German, Arabic, or Hebrew (Syllabus A).

*Foreign Students*—Exemption may be granted to any person who has obtained a certificate or certificates qualifying him for admission to a univ. in Austria, Belgium, Czecho-Slovakia, Denmark, Finland, France, Germany, Holland, Hungary, Italy, Norway, Poland, Sweden, Switzerland, or Yugoslavia, or a Certificate of Part I. of the Baccalauréat de l'Enseignement Secondaire in France, provided it shows that he has satisfied the examiners in either Latin or Greek.

Natives of Asia, Egypt, or the Sudan, born of non-European parents, can apply for permission to offer a substitute for Latin or Greek in Responsions.

*Admission to Privileged Standing: "Senior Status."*

The following may be admitted to the status and privileges of a Senior Student:

(1) Any person who has obtained a Degree at another Univ., such Degree and such Univ. having been approved by the Hebdomadal Council,\* provided that he shall have pursued a course of study extending over 3 yrs. at the least at a Univ. or Univs. so approved, or, should the Hebdomadal Council in his case approve, partly at a Univ. so approved and partly at another or other Univs.

(2) Any person who, having been a student at a Univ. in a European country, where there is no Degree in any way equivalent to that of Bachelor of Arts but where there are State or Univ. examns. at approximately the same stage as the examns. for the Degree of Bachelor of Arts, has passed such State or Univ. examn., such examn. and such Univ. having been approved by the Hebdomadal Council, provided that he shall have pursued a course of study extending over 3 yrs. at the least at a Univ. or Univs. so approved.

(3) Any person who has obtained a Degree at another Univ. and has also been selected to come to Oxford by some Body approved, for the purposes of this Sectio by the Hebdomadal Council.

\* The Hebdomadal Council will not approve any Degree of an Indian Univ. under this clause unless the course of study leading to it has extended to 3 yrs. subsequently to the Intermed. Examn. In most cases a First Class is required either in B.A. Honours or B.Sc. Honours or M.A. or M.Sc.

(4) Any person who, though not eligible under sub-clause (1) or (2) or (3), has satisfied the Hebdomadal Council that he is particularly well qualified to be admitted as a Senior Student.

(5) Any medical student of a Univ. in the British Dominions or Colonies or in Gt. Britain and Northern Ireland may be admitted to the status and privileges of a Senior Student ; provided that the Univ. shall have been approved by the Hebdomadal Council and that he shall have pursued at that Univ., or, should the Hebdomadal Council in his case so approve, at more than one Univ., for at least 3 yrs. a course of study leading to a degree in Medicine and shall have passed all examns. incidental to that portion of the course.

A Senior Student : (a) may reckon his 1st term as his 4th ; (b) is not required to pass Responsions or any part of the 1st Public Examn. ; (c) is entitled to supplicate for the Degree of B.A. after having kept statutable residence for 6 terms, and having (i.) obtained a place in the Class List of an Honour School of the 2nd Public Examn., or been allowed " aegrotat," or, if disqualified by standing from obtaining Honours, shown such merit as would otherwise have entitled him to a place in the Class List ; or (ii.) satisfied the Examiners in the 2nd Public Examn. in the Final Honour School of Nat. Sci. in Chem., Pt. I ; or (iii.) passed the Preliminary Examn. in Agriculture, Forestry and Geography and the Final Examn. in the School of Forestry.

No Senior Student will be entitled to supplicate for the Degree of B.A. except as above.

*Incorporation.* Admission of members of the Univs. of Cambridge and Dublin to incorporation. See p. 267.

## READING

The University holds no Matriculation Examination.

### *Exempting Examinations*

Matriculation, minimum age 17, is open to :

(a) Graduates of Univs. in the United Kingdom or other approved Univs. ;

(b) Persons who have passed or obtained exemption from Nos. 3 or 6, or have satisfied the conditions for such exemption ;

(c) Ordinarily persons who hold 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b) and who have at one and the same examn. obtained passes with credit in five subjects including (i.) English, (ii.) *either* Maths. or Latin, (iii.) three other subjects. Persons offering Maths. under (ii.) must include an ancient or modern foreign language under (iii.) ;

(d) Persons who, being at least 23 years of age, have passed a special examn. held by the Univ. " for approved candidates of mature years." In exceptional circumstances the Senate may accept other evidence of previous education and attainments.

## WALES

The Matriculation Examn., the passing of which is a condition of matriculation for students of the constituent Colleges who have not passed an equivalent examn., is held at each of these Colleges and at

certain approved Adult Schools about the end of Jan. and the end of June each year. The subjects are (a) English, (b) Welsh Lang. and Lit., (c) Latin, (d) Greek, (e) New Testament Greek, (f) Welsh, (g) French, German or other approved language, (h) History, (i) Scripture, (j) Music, (k) Art, (l) Geography, (m) Economics, (n) Maths., (o) Mechanics, (p) Physics, (q) Chemistry, (r) Botany, (s) Biology, (t) Geology, (u) Practical Plane and Solid Geometry, (v) General Science. A candidate must pass at one and the same examn. in 5 subjects, including (a) or (b), one of (c), (d), (e), (n); and at least in one language in addition to English or Welsh Lang. and Lit., and either (n) or (l), or one of (o) to (v). No candidate may offer more than one of (v), (j), (k) or both (b) and (f), or both (d) and (e), or both (e) and (i), or both (r) and (s), or both (l) and (t). A candidate who wishes to offer Economics must offer (n), or one of the subjects (o) to (v). A candidate who wishes to offer General Science may not offer one of the subjects (o) to (u).

#### *Exempting Examinations*

*Great Britain and Ireland*—(a) Nos. 3, 6, 16, 19, 21.

(b), 7 (b), 8 (b), 9 (b), 10 (b), 11 (b), 12 (b), 13, 14 (b), 15 (Higher Grade), 17, 20, 22, with credit at one and the same examn. in each of the subjects required by the Welsh Matricn. Regulations.

*Note.* The certificates of candidates desiring exemption must in general comply with the conditions of exemption in force at the time of the award of the certificate.

*Dominions and Foreign*—Candidates who have qualified by examn. for a degree of an approved Univ. or College, or have passed the Matricn. examn. of the South African Univs. or of the Swiss Univs., or of the Palestine Board of Higher Studies (Syllabus A), or the secondary school certif. examn. of the Transvaal or Cape Province Education Dept., or the Egyptian Secondary Education Certificate Examn. Part II., in the subjects required by the Univ. matricn. regulations, or, if certified by a constituent Coll. as possessing sufficient knowledge of English to profit by a degree scheme of study, the Intermediate Examn. in Arts or Sci. of an approved Indian Univ., may matriculate without further examn.

#### *Special Exemptions*

Candidates of 23 or more years of age after a written and *viva voce* examn. conducted by a constituent College may be exempted on the recommendation of the constituent College.

Candidates of not less than 20 years of age who have been full-time pupils of an approved adult school during not less than 2 yrs. may pass the matricn. examn. in 4 subjects provided they satisfy the authorities of the adult school in a fifth subject.

Candidates for Diplomas of the constituent Colleges who are not less than 20 yrs. of age and who have been for at least 1 yr. full-time students at a constituent Coll. may pass the matricn. examn. in 4 subjects provided that they satisfy the Coll. in a fifth subject.

#### *Special Regulations for entrance to the Faculty of Medicine*

No candidate for the degrees of M.B., B.Ch. will be accepted, unless he has passed, prior to admission, the matriculation examn. or an examn.

recognized by the Univ. of Wales as equivalent thereto and has passed the matriculation or equivalent examn. in two of the following subjects, *of which one shall be either Physics or Chemistry*, viz.—Physics, Chem., Bot., Zool. and Biol. This regulation will not apply to persons holding a degree of a British Univ.

No candidate is accepted for admission to the Depts. of the *Second Year* of the medical course until he has pursued and completed by examn. at one and the same time, the four first year courses. This regulation may, however, be relaxed at the discretion of the Joint Academic Committee of University College, Cardiff, in certain cases where only *one* of the four first year courses named above is outstanding.

### SCOTTISH UNIVERSITIES

#### *Qualifications for admission to degree courses in Scottish Universities*

I. Scottish Education Dept.'s Group Leaving Certificate showing passes (including at least two on the Higher Standard) in at least 4 of the following subjects: (i.) English (including Literature and History); (ii.) Maths., Dynamics, Physical Sci.; (iii.) Latin, Greek, French, German, Italian, Spanish, Gaelic; (iv.) Nat. Sci., Art, Music, Applied Sci., provided (a) the passes must include one from each of the groups ii. and iii.; (b) unless they include three on the higher standard the Certificate must show either (1) passes in Latin (or Greek) and in Maths., or (2) a pass on the Higher Standard in Latin (or Greek) or in Maths., and all the four passes must be in subjects taken from groups (i.), (ii.), and (iii.); but the Board will accept a pass in Higher Nat. Sci. as one of the four passes.

II. Other certificates affording evidence of a satisfactory secondary education on lines above specified.

III. Preliminary Examination under the Entrance Board in 4 subjects selected from the following, including at least one from each of the first 3 groups: (i.) as under Clause I.; (ii.) Maths., Physical Sci., Dynamics; (iii.) as under Clause I., or other approved language; (iv.) Nat. Sci. (any 2 of Chem., Bot., Zool., Geog.). Proviso (b) applies (except as regards the limitation to passes from subjects in Groups (i.), (ii.) and (iii.)), and candidates are ordinarily required to reach the pass standard in English. The only subjects in this examination in which lower standard passes can be obtained are Latin, Greek, and Maths. Candidates submitting both Physical and Nat. Sci. may select questions in the Chemical Section of one only of these branches. Examns. held March and Sept.

The holder of a degree obtained otherwise than *honoris causa tantum* in any British or foreign Univ. is exempt from all Prelim. examination.

#### *Exempting Examinations*

*Great Britain and Ireland*—A. Nos. 1, 2, 3, and any School or Local Examn. conducted under the auspices of the Univs. of Oxford or Cambridge which are accepted as exempting from (1) and (2) respectively.

B. Such qualifications as would admit a candidate to the Faculty of Arts or the Faculty of Science in a Univ. in England, Wales, or Ireland, provided he has been educated chiefly in one of those countries.

*Dominions and Colonies*—Candidates from the British Dominions or Colonies may be exempted from the Preliminary Examn. if they have passed examns. which would admit them to a course qualifying for graduation in Arts or Science in Univs. or Technical Colleges affiliated to a Univ. in the Dominion or Colony from which they come, provided their knowledge of English is sufficient to enable them to follow the courses of instruction with profit. Those whose native language is other than English are required to pass an examn., oral and written, in English, including set books.

*India*—Students from India are admitted subject to the condition that they have obtained a first class in an Intermediate Examn. in Arts or Science in a recognized Indian Univ., and have at some stage of their course passed in English and Maths. or Science.

*Hong-Kong*—The Matriculation Certif. of the Univ. of Hong-Kong will be accepted.

*Burma*—Students from Burma must have passed the Intermediate Examn. of the Univ. of Rangoon and have passed at some stage of their course in English and Maths. or Science.

*Palestine*—The Matriculation Certificate of the Dept. of Education of the Government of Palestine will be accepted, provided the candidate has passed with credit in English according to Syllabus A, and has obtained a pass with distinction in one subject at least and passes with credit in three other subjects, one of which may be English.

The Intermediate Examn. for the Arts and Sci. Diploma of the Palestine Board of Higher Studies will be accepted.

*Foreign*—Certifs. entitling the holder to enter upon a regular course of study leading to a degree in Arts, Pure Sci., or Med. in any of the Univs. or Colls. approved by the Assocn. of American Univs. (*see* Appendix VIII.) are recognized for exemption from the Prelim. examn.

The B. ès L. and B. ès Sc. and similar "certifs. of Maturity or Grades, entitling the holder to enter upon a regular course of study in the Univs. of his own country," are accepted subject to the above-mentioned conditions as to knowledge of the English language. Argentine Certificates giving admission to the Univ. of Buenos Ayres, the B.A. degree of St. John's, Shanghai, the first-class certificates of the Anglo-Chinese College, Amoy, and, if including Arabic, English, and Maths., the Egyptian Secondary Education Certificate, have been recognized as exempting from the Prelim. examination.

Applicants of Chinese birth who have passed the Entrance Examn. entitling them to enter upon a course leading to a degree in Arts or Pure Science or Medicine in one of the recognized Chinese Univs. will be granted the Board's Certif., provided they pass the Special Examn. in English for foreign students.

*N.B.*—In each Univ. the Senatus may for any particular class, attendance on which for a specified period is necessary in order to qualify for graduation, determine the conditions of admission to such qualifying attendance.

Application to the Secretary of the Scottish Universities Entrance Board, 81 North Street, St. Andrews, should be made by all overseas students seeking admission to Scottish Univs.

*Special Exemptions*

The Board has a general dispensing power in regard to applicants of not less than 21 yrs. of age who satisfy it as to their fitness.

Full information as to the regulations for examinations and for exemptions can be obtained from the Secretary, Scottish Universities Entrance Board, 81 North Street, St. Andrews.

*Exemption from Courses in Medicine and Surgery*

Subject to certain conditions 3 yrs. or 9 terms of medical study may be spent in attendance on courses of instruction in the subjects of the curriculum at any Univ. of the U.K., or at such Dominion, Indian, Colonial or foreign Univ., or at such medical schools, or under such teachers as may be recognized for the purpose.

*Special Regulations for Entrance to Classes*

**Aberdeen.** In the case of Greek, Hebrew, Arabic, Syriac, and Mathematics, a student shall be admitted to attendance on the classes qualifying for graduation if he has the subject of the class as one of the subjects either of his Group Leaving Certificate or of the University Preliminary Examination. Where a student desires to attend a course qualifying for graduation and does not satisfy the above condition, he shall inform the Secretary to the University of Aberdeen not later than one week before the commencement of the class, and a written examination or other test will be provided to determine his fitness to attend the class.

**Edinburgh.** Certain preliminary passes are required for entrance to certain classes. If a student intends to take a curriculum containing a class which requires a special qualification, it is desirable that he should have included this qualification in his Leaving Certif. (or its equivalent), but failing this he may take the subject in the Univ. Preliminary Examin.

*Preliminary Qualifications Necessary for Attendance at Certain Classes*

**Arts and Commerce.** Ordinary classes in Latin, Greek, French, German, Italian, Spanish, Celtic.—A pass in the lang. on the higher standard in the Leaving Certif., or some equivalent evidence of proficiency.

Second Ordinary, Intermediate Honours, and Honours Classes in English, and Interm. and Hons. Classes in French, Italian, Spanish.—A pass in Latin on at least the lower standard in the Leaving Certif. (on the higher for Hons. English), or some equivalent evidence of proficiency.

**Sanskrit.**—A knowledge of the Devanagari characters and the mode of transcription described in Perry's *Sanskrit Primer*.

**Hebrew.**—A knowledge of Hebrew grammar (as in Davidson's *Introductory Hebrew Grammar*), and ability to read simple prose, such as the Book of Ruth, or the narratives of Genesis.

**Arabic.**—A knowledge of Arabic grammar, and ability to read a simple Arabic text.

**Music.**—A pass in Music in the Leaving Certif., or some equivalent evidence of proficiency.

Maths., Natural Philos. (Physics).—A pass in Maths. on the higher standard in the Leaving Certif., or some equivalent evidence of proficiency.

Chemistry.—A pass in an Admission Examn., unless the student has a pass in Physical Sci. (incl. Chem.) in the Leaving Certif., or other evidence of proficiency accepted as equivalent.

The Ordinary Classes in Ancient (Gk. and Roman) Hist., Gen. European Hist., Ecclesiastical Hist., and Roman Law, and Hons. Classes in British Hist., Constitutional Law and Const. Hist., and Scottish Hist.—A pass in Latin on at least the lower standard of the Leaving Certif., or some equivalent evidence of proficiency.

Accounting and Business Method.—A pass in an Admission Examn. in Book-keeping (L. C. Cropper, *Book-keeping and Accounts*, pp. 1-132), or evidence of a sufficient practical training in an office or otherwise.

Science. Maths., Technical Maths., Physics (Nat. Philos.), Chem.—As for Arts.

Engineering.—A pass in Higher Maths. in the Leaving Certif. (or its equivalent).

As Maths. or Physics is a class included in every type of curriculum for the Ordinary degree in the Dept. of Pure Sci., Higher Maths. should be included in the Leaving Certif. (or its equivalent). Every student who wishes to attend the courses in Technical Maths. must also sit an Entrance Examn. on the first Monday of the Autumn Term.

Similarly, Tech. Maths. or Physics is included in the curriculum for a degree in the Depts. of Engin., Mining, Tech. Chem., Agric., and Forestry.

Law. Civil Law.—A pass in Lower Latin in the Leaving Certif. or some evidence of a sufficient knowledge of the language.

Medicine. A student before commencing the study of Med. must have passed (1) an examn. in Gen. Knowledge recognized by the Entrance Board,\* and (2) the Pre-Registration Examn. in Physics and Chem. of the Univ. or a recognized equivalent examn.†

Students taking Examn. (1) in a form which includes Chem. and Physics as an essential part of the examn. must take a separate Pre-Registration Examn. in these two subjects subsequently.

#### *Recognition of Institutions and Teachers Outside the United Kingdom*

(a) Students may apply for exemption from one (not the final) year of the course for M.A. or for B.Com. and from attendance on classes in and examn. in two subjects for the Ordinary Degree. Applications will be considered separately on their merits.

(b) For some of the courses for the B.Sc.: Madras Coll. of Agric., Colls. affiliated up to B.A. and B.Sc., and Engin. Colls. affiliated to the Indian Univs., Univs. and Polytech. Sch. supported and regulated or recognized by Govts. in Europe.

\* Any student holding a certif. admitting him to an English, Irish, or Welsh Univ. will be exempted by the Entrance Bd. from Examn. (1).

† Applications for exemption should be addressed to the Dean of the Faculty of Medicine.

(c) For admission as graduate in Arts to the LL.B. examn.: the Univs. of All., Calc., Mad., v. also (f).

(d) For 2 of the 3 yrs.' study for LL.B. ; McGill Univ., Madras Law Coll., Law Coll., Trivandrum, Ripon Coll., Calc., Rangoon Univ.

(e) For 3 of the 5 yrs. of Med. study : recognized teachers in Singapore (in Physiol. and Practice of Med.) and Wellington, S. Africa (in Chem.).

(f) Graduates of other institutions are admitted to study for the Ph.D. degree ; each application is considered separately.

**Glasgow.** I. For the following classes, namely : Latin (Ordinary), Greek (Ord.), French (Ord.), German (Ord.), Italian (Ord.), Spanish (Ord.), Russian (Ord.), Hebrew (Senior), Arabic (Ord.), Celtic (Ord.), attendance shall not, except as hereinafter provided, qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in the subject of the class on the Higher Standard (where different grades exist) ; but any student not so qualified, if for special reasons he shall have been admitted to any of these classes by the Head of the Dept. and shall have passed in the subject of the class on the Higher Standard in March of the same academic year, may make application to the Senate for the recognition of such pass, and on such recognition being granted his attendance and class record may be allowed to qualify for graduation.

II. (a) For all Higher Ordinary classes in Arts—attendance on a Higher Ordinary class shall not qualify for graduation on the Higher Ordinary Standard unless before admission to the class the student has obtained a pass on the Ordinary Standard in the subject in which he is taking a Double course.

(b) For all second year classes of Double course subjects in Science : attendance on a second year class of a Double course subject shall not qualify for graduation on the Double course Standard unless before admission to the class the student has obtained a pass on the Single course Standard in the subject in which he is taking a Double course.

III. For the following classes, namely : English (Higher Ordinary or Hons.), French (Higher Ord. or Hons.), German (Higher Ord. or Hons.), Italian (Higher Ord. or Hons.), Spanish (Higher Ord. or Hons.), Hebrew (Higher Ord.), Celtic (Hons.), Hist. (Higher), Hist. (Hons.), Scottish Hist. and Lit. (Hons.), Constitutional Law and Hist. (Higher Ord.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Latin or Greek on the Higher or the Lower Standard.

IV. (a) For the following classes in Arts and Pure Science, namely : Maths. (Ord.), Nat. Philos. (Ord.), Astronomy (Ord.), attendance shall not, except as hereinafter provided, qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Maths. on the Higher Standard ; but any student not so qualified, if for special reasons he shall have been admitted to any of these classes by the Head of the



Dept. and shall have passed in Maths. on the Higher Standard in March of the same academic year, may make application to the Senate for the recognition of such pass, and on such recognition being granted his attendance and class record may be allowed to qualify for graduation.

(b) For the following classes in Applied Science and Engin., namely : Maths. (First Course for Engineers), Applied Physics (Ord.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Maths. on the Higher Standard, or that he has diligently attended a non-qualifying course in that subject ; but the Head of the Dept. shall have power to accept such evidence of proficiency in Maths. as he may deem equivalent.

V. For the following classes, namely : Logic (Hons.), Moral Philosophy (Hons.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Latin or Greek on the Higher or Lower Standard, or in Maths. on the Higher Standard.

VI. For the following class, namely : Civil (or Roman) Law, attendance shall not normally qualify for graduation unless before admission to the class the student has graduated in Arts, or has produced evidence that for the Entrance Certif. or otherwise he has passed in Latin on the Higher Standard.

VII. For the following classes, namely : Hebrew (Hons.), New Testament Greek (Biblical Criticism, Junior), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Greek on the Higher or Lower Standard, or that he has diligently attended a non-qualifying class in Greek.

VIII. For the following class, namely, Hebrew (Junior), attendance shall not normally qualify for graduation unless before admission to the class the student produces evidence to the Head of the Dept. that he possesses a sufficient knowledge of Elementary Hebrew Grammar.

IX. For the following class, viz., Music (ordinary), attendance shall not normally qualify for graduation unless before admission to the class the student has (a) passed in Music on the higher standard in the Leaving Certif. Examn., or (b) attended and satisfactorily performed the work of the elem. class.

In cases I. and III.-IX. either the Head of the Dept. or the Faculty concerned shall have power to accept such other evidence of fitness to profit by attendance on the class as may be deemed sufficient.

**St. Andrews.** In the Faculty of Arts, students who propose to attend a graduating course in Latin or Greek, or Hebrew, or French, or German, must produce evidence of having passed the Leaving Certificate Examn. in the language on the Higher Standard or some equivalent qualification, or must (in the case of Latin and Greek) have attended a Junior Class in the Univ. and duly performed the work of that class for one session. Students who wish to attend a graduating course in Maths., Applied Maths., or Nat. Philos. must show that they have passed the

Leaving Certif. in Maths. on the Higher Standard or obtained some equivalent qualification.

In the Faculty of Science, the above rule applies to the classes of Maths., Applied Maths., and Nat. Philosophy.

### BELFAST

The Matriculation Examn. comprises English, Mathematics, and 3 of the following: (*a*) Greek, (*b*) Latin, (*c*) French, (*d*) German, (*e*) Italian, (*f*) Spanish, (*g*) Modern History, (*h*) Physics or Mechanics, (*j*) Geog., (*k*) Chem., (*l*) Bot., (*m*) for Faculties of Arts, Commerce, Applied Science, and Technology—Celtic, (*n*) for Science, Medicine, or Applied Science or Technology—Mechanical Drawing; for Commerce—(*o*) Elementary Economics, and (*p*) Accounting; for Faculty of Arts (*q*) Music. For Arts, Science, or Medicine one language other than English must be taken; for Commerce—French or German or Spanish; for Applied Science or Technology—one of the languages (*a*)-(*f*).; for Faculty of Law—Higher standard required in English, History and Latin. Candidates for Faculty of Arts may, under certain conditions, take Latin or Greek instead of Maths.

A candidate who has passed in at least 3 subjects, but failed to pass the examn. as a whole, is allowed to complete his matricn. at the next subsequent examn.

#### *Exempting Examinations*

Candidates who have passed any of the following examns. are admitted as matriculated students, provided that if they have not passed in all the subjects required by the Univ. for matriculation in the respective faculties they shall be required to pass in the additional subjects at one and the same Matricn. Examn.

*Great Britain and Ireland*—A. 1, 2, 3, 4, 5, 6, 8 (*a*),\* 8 (*b*),\* 9 (*a*),\* 9 (*b*),\* 10 (*a*),\* 10 (*b*)\* (provided in the case of 8 (*b*), 9 (*b*) and 10 (*b*) that at the same or any separate examns. the candidate has passed in 5 subjects recognized by the Univ. for matriculation and obtained credit in at least four), 11 (*b*), 13, 15 (subject to certain conditions), 16, 17, 19, 20.

B. Graduation examn. of a British Univ.

*Dominions*—The Matricn. Examn. of the Joint Matriculation Board of the Univs. of South Africa; the Matricn. Examn. of the Univ. of New Zealand.

The Secondary School Certificate of the Transvaal Education Dept. provided that the student has passed in the subjects required by the faculty he desires to enter and that he has passed with credit in at least 3 of these subjects.

\* Candidates who have partially fulfilled the conditions of these examns. and who wish to offer a combination of the results of these examns. as a qualification for matricn. or to combine 8 (*b*), 9 (*b*), or 10 (*b*) with the Matricn. Examn. should forward their application to the Secretary for consideration.

Candidates who have passed in Physics and Chem. as one subject in 8 (*b*) will be allowed to count this as two out of five, provided they have passed in an additional subject.

*India*—The Intermediate Examn. of the following Indian Univs. : Aligarh, Allahabad, Benares, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Panjab, Patna, Rangoon.

*Palestine*—The Matricn. Examn. of the Palestine Board of Higher Studies, provided that the student has passed with distinction in English.

### *Special Exemptions*

Students of mature age (not less than 23) may be admitted without passing the ordinary Matricn. Examn. Applications are dealt with by a special committee of the Academic Council, who may submit candidates to such tests of their fitness to profit by the courses of the Univ. as they may consider necessary in each case. Applications must be submitted on or before July 1 in each year.

### *Special Regulations for Entrance to Faculties*

*Arts.* Candidates for the Faculty of Arts who intend to enter an Honours School must pass in Greek or Latin at Matricn.

*Medicine.* Candidates must have passed an examn. in Latin of at least Junior Certificate (Northern Ireland) Standard, and a pre-registration examination in Physics and Chem. recognized by the General Medical Council.

*Law.* A higher standard at Matricn. Examn. is required in English, History and Latin.

*Engineering.* There is a special Matricn. Examn. comprising English, Maths., Further Maths., Greek or Latin or French or German or Italian or Spanish, Physics or Chem., Mod. Hist. or Geography.

## DUBLIN

*Arts.* The Matricn. Examn. held six times a year, comprises English Composition, Maths., English Hist. and Modern Geog., Latin, and one of: Greek, French, German, Irish, Italian, Spanish.

*Science.* The Matricn. Examn. comprises English Composition, Maths., French or German, and one other language.

### *Exempting Examinations*

*Great Britain and Ireland.* Candidates who have passed the Examn. for Leaving Certificates held by the Dept. of Education in the Irish Free State, or the Examn. for Senior Certificates held by the Ministry of Education in Northern Ireland, or any other examn. including 6 (a), 6 (b), 7 (a), 7 (b), 8 (a), 8 (b), 9 (a), 9 (b), 10 (a), 10 (b), regarded by the Senior Lecturer as equivalent thereto, are qualified for Entrance to Trinity Coll. on passing, if required to do so by the Senior Lecturer, a further examn. in those subjects, if any, of the Trinity Coll. Entrance Examn. which are not included in those which they have already passed.

*South Africa.* A student who has passed the Matricn. Examn. of any S. African Univ. including English, Maths., Latin, and one other approved language is admitted without further examn. and, if a Med. student, is excused the special Prelim. Examn. in Arts.

*Admission to Advanced Standing*

Special regulations provide for the grant of credit for previous academic attainments at the Univs. of Oxford and Cambridge, while students or graduates of the following Univs., Aberdeen, Belfast, Birmingham, Bristol, Edinburgh, Glasgow, Leeds, Liverpool, London, Manchester, St. Andrews, Sheffield, Wales, and the National Univ. of Ireland, may be allowed credit *pro tanto* for the first two years in the examn. held at their expiration; but every such student must keep at least 2 yrs. at Trinity Coll. : and further, no medical degree can be taken without at least 3 yrs.' attendance.

*Dominions* (other than S. Africa), *India*, and *U.S.A.* Certain privileges in Arts are granted to approved students of the following Univs. and Colls. : Adel., Agra, All., Annamalai, Bom., Cal., Dacca, Lucknow, McGill (Montreal), Madras, Melbourne, Nagpur, New Brun., N. Zeal., Panj., Patna, Rangoon, Syd., Tas., Tor., King's Coll. (Halifax, N.S.), and Univs. and Colls. in the U.S.A. approved by the Assn. of American Univs.

*South Africa.* Medical students are given credit for lectures and examns. in Zool., Bot., Chem., and Physics of any S. African Univ., and also for lectures and practical work in Anat. and Physiol., but not for the examn. in these last two subjects.

A student who has passed the Interm. Examn. of any S. African Univ. is permitted to present himself at the Final Freshman examn., with exemption from those subjects in which he has already passed at the Interm. Examn.

A student who has passed the B.A. examn. of any S. African Univ. is allowed credit for the first two collegiate years and for the Final Freshman examn.

In keeping terms students from S. Africa may present Dutch as their language.

*Note.* Medical students from Dominion and other approved Univs. may be granted concessions similar to, but in no case greater than, those at present given to South African students. Each case is to be decided, as regards Arts by the Lecture Committee, and as regards Medical Courses by the Committee of the School of Physic.

For further information application should be made to the Registrar of the School of Physic.

## NATIONAL UNIVERSITY OF IRELAND

The Matricn. Examn., held twice a year, comprises six groups of subjects : (a) Irish, (b) Latin or Greek, (c) any modern lang. approved by the Senate, (d) English, (e) Maths., (f) Latin, Greek, any modern language approved by the Senate, Hist., Geog., Applied Maths. or Physics, Chem., Agric., Commerce, Music, Bot., and (for women candidates only) Physiol. and Hygiene. Candidates must pass in 5 subjects, but may present 6, if they so desire.

Those born in Ireland, whose home residence has not been outside Ireland during the 3 preceding years, must pass in Group (a). Others may present in lieu of Irish either a second language or a second Science

subject ; they will be expected to attend a course in Irish Lit. and Hist. before obtaining a degree in the Univ.

### *Exempting Examinations*

Candidates who have passed in not less than 4 of the subjects prescribed for Matricn. at any of the following examns. may, provided such examn. has been passed as a whole, complete their matricn. by passing the fifth supplementary subject at the Matricn. Examn. of the Univ.

A. *Great Britain and Ireland*—Passes in the Senior Grade of Intermediate Board or the Leaving Certificate Examn. in any of the subjects recognized for matricn. are accepted as equivalent to passes in these subjects at the Matricn. Examn., even though the former examn. was not passed as a whole. Provided that the subjects required have been passed, the Univ. accepts the following in lieu of their own Matricn. Examn. : the examns. numbered 1, 2 (Parts I. and II.), 3, 4 (except in Maths.), 5, 6, 8 (a), 9, 10, 15 (Higher), 16, 17.

*Dominions*—The Senior Public Examns. of Adelaide and Queensland, and the Matricn. Examns. of Sydney, Melbourne, Queensland, and New Zealand, and of the Matricn. Board of S. Africa. The Matricn. Examns. of other Univs. in the British Empire overseas (excluding India) are recognized only in combination with an Intermediate Examn. in Arts or Science.

*Foreign*—The Jaffa Gymnasium Maturité. The Matricn. Certif. of the Univs. of Switzerland, with (a) Latin and Gk., Mod. Langs. and Maths. or Nat. Sci., (b) with Mod. Langs., Maths. or Nat. Sci. and with an endorsement that Latin has been taken at a subsequent date.

B. Graduation in Arts or Science in any Univ. of the Dominions and Colonies (except India).

### *Special Regulations for Entrance to Faculties*

Students entering for degrees in (1) Arts, Philosophy, and Celtic Studies, (2) Law, (3) Med. or Dentistry, (4) Science, Commerce, Agric., Dairy Science, Engn., must take : (1) subjects in the Matricn. groups (a), (b), (d), (e), (f) ; (2) Latin, and subjects in (a), (d), (e), (f) ; (3) Latin, (a), (d), (e), and a fifth subject, but if already registered by the General Medical Council, students may take the subjects prescribed for any other faculty ; (4) one from each of (a), (b) or (c), (d), (e), and one other from (f).

## II

### POST-GRADUATE SCHOLARSHIPS, ETC., AND GRANTS FOR ADVANCED STUDY AND RESEARCH

#### A. GREAT BRITAIN AND IRELAND

1. General.
2. Adult Education.
3. Agriculture, Veterinary Science, etc.
4. Applied Science and Technology.
5. Architecture (*v.* Art and Archæology).
6. Arts (General).
7. Arts (Special Subjects).
 

Art and Archæology.	Law.
Classics.	Mathematics.
English Literature.	Modern Languages.
Geography.	Music.
History.	Oriental Languages.
History, etc. (British Empire).	Philosophy.
History and Geog. (India).	Psychology ( <i>v.</i> Philosophy).
International Relations.	
8. Commerce.
9. Economics and Sociology.
10. Education.
11. Engineering (General).
12. Engineering (Special Branches).
 

Aeronautics.
Engineering, Mechanical ( <i>v.</i> Engin., General).
Mining and Mining Engineering.
Naval Architecture and Marine Engineering.
13. Fisheries.
14. Journalism.
15. Medicine and Surgery (General).
16. Medicine and Surgery (Special Subjects).
 

Anatomy.	Obstetrics and Gynæcology.
Bacteriology.	Pathology.
Bio-Chemistry ( <i>v.</i> 18).	Preventive Medicine.
Cancer.	Tropical Med. and Hygiene.
Diseases of Children.	Tuberculosis.
Neurology.	
17. Science (General).

## 18. Science (Special Subjects).

Bio-Chemistry.	Mathematics.
Biology (Animal Morphology).	Metallurgy.
Botany.	Physics.
Biometrics.	Physiology.
Chemical Engineering.	Zoology.
Chemistry.	

## 19. Theology.

## B. DOMINIONS

20. Canada.	23. South Africa.
21. Australia.	24. India.
22. New Zealand.	

## C. MANDATED TERRITORY

## 25. Palestine.

## D. FOREIGN COUNTRIES

26. Belgium.	30. Jugo-Slavia.
27. France.	31. Sweden.
28. Germany.	32. United States of America.
29. Holland.	

Information as to the provision made by the several Universities and other learned institutions for the promotion of advanced study and research by the offer of scholarships, fellowships, etc., limited to their own graduates or members, will be found under the heading "Scholarships, etc." in the sections of the *Yearbook* relating to those Univs. and institutions. Particulars of other aids to British students for advanced work, not so limited, are given in this Appendix.

The assistance given by way of scholarships, etc., by different types of instn., whether Govts., Univs., scientific societies or separate foundations, will be found by reference to the General Index under their several titles.

The reduction, under the stress of present economic conditions, in the number of available scholarships and of other provision for research, referred to in previous issues of the *Yearbook*, unfortunately still continues.

A useful *List of International Fellowships for Research* is pubd. by the International Federation of University Women (*q.v.*).

## A. GREAT BRITAIN AND IRELAND

## 1. GENERAL

BRISTOL UNIVERSITY. *Michael Hiatt Baker Scholarship*, value £200 p.a. Tenable by a graduate from New Zealand and normally held for 2 yrs., but may be renewed for a 3rd yr. The holder will normally be expected to spend 2 yrs. in research in the Univ. for a higher degree, but, with the approval of the Profs. concerned, may be allowed to spend some

period elsewhere. The scholarship may be held in any subject and is in the appointment of the Vice-Chancellor on the nomination of the Univ. of New Zealand.

BRITISH FEDERATION OF UNIVERSITY WOMEN, Ltd., Crosby Hall, Cheyne Walk, London, S.W.3. (i.) International Residential Scholarship at Crosby Hall, value £100 for 1 yr., for research or other post-graduate work. Open to all members of the Internat. Fedn. Applications to be received by Jan. 1.

(ii.) A Junior British Scholarship, value £75 or £100, subject and place of study optional, is offered from time to time to British women grads. not over 25.

Several other "occasional" post-graduate scholarships are also offered through the Fedn. Further particulars from the Secretary.

BRITISH INSTITUTE IN PARIS, 6 rue de la Sorbonne, Paris (V.). *Edward Esmond Scholarship*, at the rate of £100 p.a. for 1 yr. or less, with possible renewal beyond a yr. Open to graduates of British Univs. to attend courses in Paris approved by the Educational Committee of the Institute. Three Scholarships of £150 each, granted by the Leverhulme Trustees, tenable at the Institute. Nominations for appointment are made by the Vice-Chancellors of all British Univs. before March 30, to B. S. Townroe, 1 Old Burlington St., London, W.1.

CAMBRIDGE UNIVERSITY. *Bartle Frere Exhibitions*, for study or research in any branch of knowledge relating to any part of the British Empire except the U.K. and India. Tenable for 1 yr. but may be prolonged for a 2nd yr.

CAMBRIDGE UNIV.: CHRIST'S COLLEGE. A Research Studentship, £200 p.a. paid quarterly, for 2 yrs., prolonged for a 3rd yr. in exceptional circumstances, will be awarded at end of July 1938. Open to men who will have graduated before 1 Oct. 1938 at some Univ. other than Cambridge and who have not commenced residence at Cambridge at time of election. Candidates must be not more than 26 yrs. of age on 1 Oct. 1938. Each must declare that he intends, if elected, to proceed to the Ph.D. degree in the Univ. and either before or shortly after appointment must obtain permission to enter as a Research Student. Nominations must be made by and applications sent through, the head of the candidate's Univ. addressed to the Master, Christ's College, and should reach him before 1 July 1938.

CAMBRIDGE UNIV.: CLARE COLLEGE. *Denman Baynes Studentship*, £100 p.a., held usually for 2 yrs., open to grads of any Univ., with pref. to those of Cambridge and members of Clare Coll. Applications to the Tutor.

CAMBRIDGE UNIV.: EMMANUEL COLLEGE. Research Studentship, maximum value £150 p.a. for 2 yrs., with possibility of renewal. Open to a male graduate of any Univ. other than Cambridge or other qualified student beginning research at Cambridge, with a preference to one who has already done one but not more than 2 yrs.' research. The Studentship may be held by a student already endowed from other sources, if he can show that further assistance is necessary. Applications should reach



the Master not later than June 30, and should be supported by two certificates of character, a birth certificate, brief account of career, with names of professors or teachers under whom applicant studied, precise statement of proposed course of research, and any evidence of general ability and of special fitness for proposed research. A studentship of the same value is open to graduates of the College.

Rooms in the College are assigned to the Lionel de J. Harvard Memorial student nominated by the President of Harvard Univ.

CAMBRIDGE UNIV. : ST. JOHN'S COLLEGE. (i.) *Strathcona Research Studentships* in any branch of study. £200 for 1 yr., renewable for a 2nd yr. Open to graduates of any Univ. Applications to the Senior Tutor not later than June 1.

(ii.) *Strathcona Research Exhibitions* in any branch of study. £40 for 1 yr., renewable for a 2nd yr. Open to graduates of any Univ. other than Cambridge. Applns. as above.

CAMBRIDGE UNIV. : TRINITY COLLEGE. A Research Studentship of value (dependent on the student's pecuniary circumstances) not exceeding £300 p.a., tenable during preparation for the Ph.D. degree in the Univ. of Cambridge is awarded annually. Open to men under 26 yrs. of age who have graduated at any Univ. other than Cambridge or are otherwise qualified, provided that they have not commenced residence in the Univ. of Cambridge. Tenure is conditional on entry as Research student and upon diligence in the approved course. Applications with certificates of birth, graduation, and character, record of education, any evidence of aptitude for research, and full account of pecuniary circumstances, must be submitted through the head of the candidate's Univ. and should reach the Senr. Tutor not later than May 1.

CAMBRIDGE UNIV. : GIRTON COLLEGE. *First Girton College Fellowship*, value £300 p.a., awarded to a woman of Univ. training, not necessarily a student of Girton, distinguished in some branch of intellectual work. Nominations hereafter to be made by Coll. for life or term of years at discretion. *Present holder* (for life), Mrs. Arthur Strong (Eugénie Sellers).

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Carnegie Scholarships and Fellowships in History, Economics, Mod. Langs. and Lit., Science, and Medicine. Scholarships, £150 p.a. for 2 yrs. with possible extension to 3rd yr. (£175 p.a.). Fellowships, £250 p.a. plus special expenses allowance, for 2 yrs. with possible extension to 3 yrs. Also a Fellowship of £250 in the History of Scots Law. Open to British graduates of Scottish Univs. in at least one of the above, for investigation of some problem or factor of modern civilization. Nominations to be made by a Prof. or other head of Univ. Dept.

CECIL PEACE PRIZE. A prize of £100 is offered yearly for an essay on some subject connected with the maintenance of International Peace, and having some bearing on the principles or work of the League of Nations. Open to all graduates, undergraduates, and students of either sex and of any nationality, of any Univ. or Univ. Coll. in Gt. Britain or N. Ireland, under 25 on the last day for submitting essays. A prize winner is not eligible to compete a second time. Essays must be typed

in double spacing and must bear a motto reproduced on a sealed envelope attached containing the name of author, address, and statement of date and place of birth. Length of essay not prescribed but 10,000-12,000 words suggested. Subject for 1938: "It is clearly desirable that membership of the League should be advantageous to a State, and non-membership or resignation involve a sacrifice. How can this end be attained?" Essays must reach the Secretary, Universities Bureau of the British Empire, 88A Gower St., London, W.C.1, on or before Nov. 1, 1938. Further particulars on application.

COLLEGE HALL, Malet St., London, W.C.1. *Pfeiffer Fellowship*, value £90 for one session. Awarded every 3rd yr. Candidates must be graduates of a British Univ. who are engaged in study for a higher degree, or in original work approved by the Council. Last award 1937-38. Applns. by June 1. Further particulars from the Principal.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship* for research, £64 for 1 yr. Awarded annually by the Faculties of Divinity, Law, Medicine, Arts, Science, and Music, in rotation. Open to grads. of any Univ. of not more than 5 yrs.' standing, and to undergrad. students of any Univ. who are proceeding to a degree in the yr. of award. A grad. of a Univ. other than Edinburgh must prosecute his research at Edinburgh Univ. 1938, Divinity. Applns. by May 15 to the Secretary of the Univ.

GOLDSMITHS' COMPANY. Senior Studentships (£1000 through Oxford, £1000 through Cambridge) not exceeding £250 p.a. open to British subjects under 26 years of age at date of application for assistance in post-graduate studies. Awards conditional on candidates taking First or Second Class Hons. in a Final School at Oxford or a Tripos at Cambridge, if they have not already done so. Students of Girton and Newnham are eligible on same terms as men. Renewable for 2nd year at option of Company. The holder must pursue his studies under the supervision of a recognized Univ. teacher in such place—either in England or elsewhere—as his teacher may approve. Applications with recommendation from Head of their Coll., 3 references to teachers, and programme of work must be addressed on or before May 24 to The Clerk, Goldsmiths' Hall, London, E.C.2, by whom the necessary forms will then be forwarded.

HENRY FUND. It is proposed to offer 4 Henry Fellowships annually for study, social intercourse, and travel, value £500 each for 1 yr., tenable at Harvard or Yale Univ. Candidates must be unmarried British subjects, not over 25 yrs. on Jan. 1 (the date of appln.), men or women, who are *either* grads. of a Univ. of England, Scotland, Wales, or Ireland, *or* of a British Dominion Univ. studying at the time of appln. at a Univ. in the British Isles, *or* undergraduates of a British Univ. intending to graduate in the year of appointment. Further particulars and appln. forms can be obtained from the Hon. Sec., Henry Fund, c/o University Chest Office, Oxford.

LEVERHULME RESEARCH FELLOWSHIPS AND GRANTS in aid of Research. The Trustees of the Will of the late Lord Leverhulme, acting on the advice of an Advisory Committee, award a number of research

fellowships for varying periods from 3 months up to 2 yrs. Applicants must be British-born "experienced workers" normally resident in the U.K., preferably men and women prevented from carrying out research either by pressure of routine duties or by any other cause. In exceptional circumstances the Trustees may waive the condition as to residence. Preference will be given to subjects in which existing provision is inadequate. The amount of individual grants is adjusted according to the circumstances of each case. Fellows will usually be required to work at, or in connexion with, a recognized centre of research either at home or abroad. 15 awards and 14 grants in aid of research were made in 1937. Closing date for applns. is March 1. Application forms and further information from the Secretary, Leverhulme Research Fellowships, Union House, St. Martin's-le-Grand, London, E.C.1.

LONDON UNIV.: ROYAL HOLLOWAY COLLEGE, Englefield Green, Surrey. (i.) *Jubilee Research Fellowship*, tenable for 2 yrs. Intended to promote research work, preferably in those subjects in which Univ. courses are provided at the College. Open to women of any nationality who have already shown ability for research. The Fellowship includes all the privileges of a resident member of the staff, including board and residence in Coll. for about 45 weeks a yr. and a stipend of £200 p.a. paid terminally in advance. Last award 1937.

(ii.) Postgraduate Studentships (4 or 5), value up to £120 p.a., awarded annually. Open to students of the Coll. who have completed 2 yrs.' residence and who wish to take up research or advanced study, and to graduates from elsewhere qualified to undertake research work.

Further particulars from the Principal's Secretary.

LONDON UNIV.: WESTFIELD COLLEGE (for women). Two *research studentships* open to graduates of any Univ. Value, one of £30, one of £60, plus free board and lodging and tuition fees at the College. Applications for ensuing academic year, to be made in Jan., must be accompanied by a scheme of work, 12 copies of 3 testimonials and names of 2 references.

MANCHESTER UNIVERSITY. (i.) A limited number of Hon. Research Fellowships are offered to candidates who can satisfy the Faculty concerned that they are qualified for some special study or investigation. Fellows work under the direction of the relevant Prof., and Fellows in Experimental Science are allowed to use approved appliances in the laboratory. They must themselves provide special apparatus and materials. Tenable for 1 yr., renewable for 2nd and possibly 3rd yr. Further particulars from the Univ.

(ii.) A limited number of Research Studentships, tenable at Hulme Hall, awarded annually, usual value 25 guineas a session, paid by deduction from terminal accounts for fees. Open to men graduates of any Univ. (not already members of the Hall) who are undertaking post-grad. or research work under one of the Univ. Professors. Application to be made in writing to the Warden (from whom further particulars may be obtained), Hulme Hall, Victoria Park, Manchester, before August 30 (candidates from Southern Hemisphere before Jan. 30). Successful candidates must commence residence not later than beginning of October

term following election (from Southern Hemisphere beginning of the Lent, or in special cases, of the Summer term).

OXFORD UNIV.: LADY MARGARET HALL. (i.) *Resident Research Fellowship*, value £300, open to women graduates of any Univ., given for 3 yrs. in first instance, with possibility of renewal.

(ii.) *Research Scholarship*, value £100, open to women graduates of any Univ., awarded for 1 yr. in first instance, with possibility of renewal for a 2nd yr.

OXFORD UNIV.: SOMERVILLE COLLEGE. *Lady Carlisle Research Fellowship*, £200 a yr. for 5 yrs., renewable up to 10 yrs. Open only to women of European race and to naturalized Jewesses, who are unmarried or widows. Last award 1934. Next appointment will be considered in 1939.

SOUTHAMPTON UNIVERSITY COLLEGE. (i.) A limited number of Honorary Research Fellowships are granted under the following conditions: (a) Except in special circumstances, the applicant must hold a degree of a Univ. within the British Empire; (b) Library and Laboratory facilities, including ordinary apparatus, are provided free of charge.

(ii.) A minimum sum of £350 p.a. is allotted by Council for the provision of one or more open research scholarships of value not exceeding £150 p.a., tenable for 1 or 2 yrs., renewable in special circumstances for a 3rd yr. (iii.) Any residue of (ii.) may be awarded as maintenance grants to students engaged in approved research. (iv.) Aid may also be given to meet incidental expenses connected with an approved and independent piece of research. Last date for application for scholarships or maintenance grants, May 1, 1938. Further particulars from the Registrar.

[The following instn. does not grant scholarships but makes loans.]

THE CENTRAL EMPLOYMENT BUREAU FOR WOMEN AND STUDENTS' CAREERS ASSOCIATION (Incorporated), 54 Russell Square, London, W.C.1, has a loan fund to help educated women who are without the means of training for professional work. No interest is charged. For University Education, Research Work, or technical Training of any kind loans are available. Amount of Fund, £9000.

### *Travelling*

ALBERT KAHN TRAVELLING FELLOWSHIPS. Founded by M. Albert Kahn of Paris to provide an opportunity for world travel. Value £1000. Open to British subjects, men or women, who have graduated or qualified for graduation, at a Univ. in Gt. Britain or Ireland. No award has been made since 1931, and the fellowship must be regarded as in temporary abeyance. Should it be found possible to make an award in any year, full notice will be given in the daily and educational press. Address of the Secy. to the Foundation, University of London, W.C.1.

FREE PASSAGES TO AUSTRALIA AND NEW ZEALAND AND BACK. The six chief passenger lines serving Australia and New Zealand place eight first-class return tickets, annually, at the disposal of the

Committee of Vice-Chancellors and Principals for graduates of the Univs. of Great Britain and Ireland who wish to visit these Dominions (a) for the purpose of holding temporary teaching-posts, or (b) for the purpose of prosecuting research work into problems connected with their development and resources. Available *from* England, March 1–July 31; *to* England, June 1–December 31. Applications must be forwarded to the Universities Bureau through, and be supported by, the Vice-Chancellor or Principal of the graduate's Univ., and, if the applicant is no longer studying at a Univ., by the head of the institution or business by which he is employed.

THE INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN, Crosby Hall, Cheyne Walk, London, S.W.3, awards Travelling Fellowships for women graduates of all countries, available for a year's research work in some country other than that of the holder. Research fellowships are awarded annually, value £250–£300. Further particulars from the Secretary.

OXFORD UNIV.: LADY MARGARET HALL. *Susette Taylor Fellowship* for independent study abroad. Value £150, open to women graduates of any Univ., with preference for Oxford. Awarded in first instance for 1 yr. with possible extension. Tenure from Sept. 1. Applications by beginning of Jan.

SCOTTISH UNIVS. *Sir James Caird Travelling Scholarships* in Engineering, Electricity, Aeronautics, and Music. Open to natives of Scotland of either sex. Value: Junior £50–£175, Senior £200–£600 p.a., according to circumstances, including place of study and nature of work contemplated. Normally tenable for 1 yr., but may be continued up to a maximum of 3 yrs. Applications to John Pearson, Solicitor, 7 Ward Road, Dundee, not later than Mar. 31 (Music, Feb. 28), from whom further information and application forms can be obtained.

THE CHARTERED SURVEYORS' INSTITUTION, 12 Great George St., London, S.W.1. Travelling scholarships, value £125, are offered annually for a post-graduate course of study at Cambridge Univ., or for the purpose of travelling. Open to persons who have already entered the profession and to graduates intending to do so. For further particulars apply to the Secretary.

## 2. ADULT EDUCATION

THE LANCASHIRE COUNTY COUNCIL EDUCATION COMMITTEE offer two Scholarships of value usually not less than £100 p.a. for encouraging non-vocational education among adult students fully engaged in industry. Age limits, 22 and 40. Evidence required of having devoted leisure time to study in a Univ. Tutorial class or in other ways. Tenable for a year, and renewable for a 2nd or 3rd yr. They are not intended for persons who desire to take ordinary three-year univ. courses in Arts, Science, Medicine, or Technology, nor for those wishing to qualify as teachers in Public Elementary Schools. The scholar will ordinarily be required to devote his whole time to study in a Univ. or other approved instn. Entry forms obtainable from the Director of Educn., County Offices, Preston.

### 3. AGRICULTURE, VETERINARY SCIENCE, ETC.

AGRICULTURAL RESEARCH COUNCIL, 6A Dean's Yard, Westminster, London, S.W.1. *Agricultural Research Scholarships and Studentships for Research in Animal Health.* Scholarships and Studentships are offered by the Ministry of Agriculture and Fisheries and the Department of Agriculture for Scotland, in conjunction with the Agricultural Research Council, and have as their object the training of students for research in agricultural science and in diseases of farm stock respectively. Though these Scholarships and Studentships do not carry with them any guarantee of subsequent employment, Agricultural Research Institutes and Advisory Centres may be expected, when filling vacancies in their junior staff, to give preference to such Scholars and Students. Forms of application and further particulars of these Scholarships and Studentships may be obtained, in the case of candidates resident in England and Wales, from the Secretary, Ministry of Agriculture and Fisheries, 10 Whitehall Place, London, S.W.1; or in the case of candidates resident in Scotland, from the Secretary, Department of Agriculture for Scotland, York Buildings, Queen Street, Edinburgh 2. Completed applications should be received by the Ministry or the Department on or before May 31.

At the present time four Agricultural Research Scholarships are offered annually. Candidates must be British subjects, and graduates with honours in science of a British Univ., or must possess equivalent qualifications. The value of the Scholarships is £200 p.a., and they are tenable for not more than 3 yrs., part of which the scholar may be required to spend abroad. An additional allowance of a sum not normally exceeding £50 p.a. may be made in respect of certain approved expenses.

Three Studentships for Research in Animal Health are at present offered annually. Candidates must be British subjects, and must either possess a veterinary or medical qualification, or must be graduates with honours in science. Studentships are of an inclusive value not exceeding £300 p.a., and are at present tenable for not more than 3 yrs., part of which the student may be required to spend abroad. Instead of one of the Studentships, a Veterinary Scholarship of £200 p.a., with allowances not exceeding £50, and tenable for not more than 4 yrs., may be awarded to enable a graduate with honours in Science to obtain a veterinary professional qualification with a view to undertaking research.

*Special research grants* for specific investigations are made by or on the advice of the Agricultural Research Council in consultation with the Ministry of Agriculture and Fisheries or the Department of Agriculture for Scotland. Further information may be obtained from the Secretary of the Council at the address given above.

*Travelling Fellowships* are granted to Agricultural Research Workers on the advice of the Agricultural Research Council. Further information may be obtained from the Secretary, Ministry of Agriculture and Fisheries or the Secretary, Department of Agriculture for Scotland, at the addresses given above. Application must be made before Dec. 31.

THE COLLEGE OF ESTATE MANAGEMENT, 35 Lincoln's Inn Fields,

London, W.C.2. *Travelling Scholarship* in Agriculture, value not over £300 for one yr. for study of Agricultural methods in this country or abroad. Open to British-born graduates of a British Univ. or those holding other approved qualifications. Candidates, who must be under 30 yrs. of age, must apply on a prescribed form to the Secretary of the College.

COLONIAL OFFICE. (i.) Not more than 14 scholarships in *Agriculture*, usually tenable for 2 yrs., will be offered annually until further notice for Agr. Research or for General Agr. £200 p.a. (£225 abroad) plus tuition fees and any matriculation and examn. fees, passages, and certain other expenses. Candidates should hold a degree in Nat. Sci., preferably with honours, or in Agr. The holders will spend part of their course at the Imperial Coll. of Trop. Agriculture in Trinidad, or some similar institution. On completing their course they may be selected for appointment to the Colonial Agricultural Service.

(ii.) A limited no. of post-grad. scholarships in *Veterinary Science* will be awarded annually until further notice for periods of from 1 to 4 yrs. £200 p.a. plus tuition fees and any matriculation and examn. fees. Candidates should normally hold a sci. degree of a British Univ. or the diploma of the Royal Coll. of Veterinary Surgeons, or a Vet. qualification granted in one of the self-governing Dominions. On completing their training they may be selected for appointment to the Colonial Veterinary Service.

Further particulars obtainable from the Director of Recruitment (Colonial Service), 2 Richmond Terrace, Whitehall, S.W.1.

EMPIRE COTTON GROWING CORPORATION, King's Buildings, Dean Stanley St., Millbank, London, S.W.1. The Corporation have suspended for the present their post-graduate studentships. These studentships, when offered, are intended to provide opportunity to men of British nationality, either for additional training in research methods in, or for advanced study of, plant physiology, genetics, entomology, tropical agriculture, etc.

MANCHESTER UNIVERSITY. *Philip Buckle Research Scholarship* in Agric. Zool. £120 p.a. plus laboratory fees, renewable for 2nd yr. Open to graduates of British Univs. or other candidates possessing required qualifications, with preference to Science grads. of the Univ. Next award 1938. Last date of appln. June 20.

#### 4. APPLIED SCIENCE AND TECHNOLOGY

BIRMINGHAM UNIVERSITY. Research Studentship in Oil Engin. and Refining, £240 p.a., and remission of tuition fees, renewable annually for not more than 3 further yrs. with increase of £20 p.a. to maximum £300. Candidates must possess a Univ. degree or equivalent in Science. Pref. to those with industrial lab. experience. Offered every alternate yr. Next award may be made in 1939.

GAS LIGHT AND COKE COMPANY, LIMITED, LONDON, award a Research Fellowship in Gaseous Fuel and Combustion in connexion with the Dept. of Chemical Technol. at the Imperial College of Science

and Technology. Value, £175 for 1st yr. and at the rate of £200 p.a. if renewed for 2nd yr. No fee or other payment required. Further particulars from the Registrar, Imperial College of Science and Technology, London, S.W.7.

IRISH SOCIETY. For Post-graduate Scholarship for linen industry, see Linen Industry Research Assn., p. 903.

LEEDS UNIVERSITY. (i.) Fellowships (£160) and Scholarships (£100-£140) instituted by the Clothworkers Company for research in Textiles and Colour Chemistry, open to graduates of any Univ. Tenable for 1 yr. and renewable. Applications received up to June 1.

(ii.) *Gas Research Fellowship*, £200 p.a., open to qualified candidate, with preference to one intending to enter the coal gas industry. Tenable for 1 yr. and renewable. Award made in June, after advertisement.

(iii.) *James Edmondson Ackroyd Fellowship*, value not less than £150 p.a., for research work for the furtherance of the Textile Industry of the West Riding of Yorkshire. Preference to graduates in Sci. or Technol.; open to suitable candidates from other Univs., but preference *ceteris paribus* to natives of, or residents for not less than 5 yrs. in, Bradford. Awarded for 3 yrs., and renewable for further period not exceeding 3 yrs. Awards made in June; applications received up to May 1.

MANCHESTER UNIV.: MUNICIPAL COLLEGE OF TECHNOLOGY. Research Scholarships (15) in Technology, £70 each, open to graduates of any Univ. in the Empire and others possessing special qualifications. Last date of appln., July 4.

NOTTINGHAM UNIVERSITY COLLEGE. For post-graduate scholarships in Applied Science, see p. 866.

ROBERT BLAIR FELLOWSHIPS. Two fellowships in Applied Science and Technology awarded annually for advanced study or research in the Dominions, U.S.A., or other foreign countries. £450 each. Open to British subjects at least 21 yrs. of age. Preference to students of Engineering Science, and to those who have completed a course of study in London Institutions or been identified with the London teaching service. Applications receivable by the Education Officer, County Hall, London, S.E.1, up to June 1.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851. The Commrs. offer *Industrial Bursaries* of not more than £143 p.a. for 1, 2, or, exceptionally, 3 yrs. to cover the period between leaving College and obtaining sufficiently remunerative employment in Industry. Open to British male subjects aged under 25 recommended through the executive authorities of such instns. as may be invited by the Commrs. to nominate. A candidate must have been a *bona fide* student of Science for a term of 3 yrs., should give evidence of practical ability likely to lead to his advancement in industrial work, and show that he has obtained, or can within a reasonable period obtain, an industrial post to be approved by the Commrs., and is in need of pecuniary assistance to enable him to hold such a post. 43 bursaries awarded in 1937.

*Address*: The Secy. to the Commrs., 1 Lowther Gardens, Exhibition Road, London, S.W.7.



**SALTERS' INSTITUTE OF INDUSTRIAL CHEMISTRY.** The Institute offers Fellowships to chemists of graduate standing to enable them to undergo a special further training at home or abroad for careers in chemical industry. The value of a Fellowship is normally from £250 to £300, but the Inst. is prepared to consider applns. which justify the award of a Fellowship of higher value. Further particulars from the Director, Salters' Hall, St. Swithin's Lane, London, E.C.4.

**SHEFFIELD UNIVERSITY.** (i.) *Ironmongers' Company Research Fellowship* in Cold-working of Steel and other ferrous metals, £500 p.a. Tenable at Sheffield Univ., length of tenure not fixed. Date of next award uncertain.

(ii.) *Ironmongers' Company Research Scholarships* (2), tenable at Sheffield Univ., £150 p.a. renewable from yr. to yr. for a period usually not exceeding 4 yrs. in all. Open to British subjects of Engl., Scottish, Welsh, or Irish birth, graduates or students of Sheffield Univ. or grads. of other Univs. Preference to candidates with special qualifns. in Engin. and in Physics respectively. Date of next awards uncertain.

(iii.) Research Fellowships in Glass Technol. are offered from time to time. Candidates should possess an Hons. degree with special training in phys. chemistry, physics, or metallurgy. The Fellows will be engaged under the direction of the Prof. on fundamental researches on the constitutions and properties of glass.

Further particulars in each case from the Registrar

## 5. ARCHITECTURE

*See Art and Archæology*

## 6. ARTS (General)

**BRITISH FEDERATION OF UNIVERSITY WOMEN, LTD.,** Crosby Hall, Cheyne Walk, London, S.W.3. *Caroline Spurgeon Scholarship* in Arts, value £100, to enable the holder to carry on research or advanced post-graduate work while residing at Crosby Hall. Next award for 1938-39. Open to all members of the Internat. Fedn. Further particulars from the Secretary.

**CAMBRIDGE UNIV. : GIRTON COLLEGE.** (i.) *Jex-Blake Fellowship* in Arts, value £250 p.a. for 3 yrs., for research in any branch of learning except Maths. and Nat. Sciences. Open to women who are graduates or have taken Hons. in a final degree examn. of any Univ., and to members of Girton Coll. Roll. Tenure as from July 1 or Oct. 1 at Fellow's option. Next award 1938. Entries by Jan. 15.

(ii.) *Pfeiffer Fellowship* in Arts, value £250 p.a. for 3 yrs. Conditions as for Jex-Blake Fellowship above. Next award 1940.

Further particulars of both the above from the Secretary.

**EDINBURGH UNIVERSITY.** *Richard Brown Scholarship*, *see under General.*

## 7. ARTS (Special Subjects)

*Art and Archæology*

**BRITISH SCHOOL AT ROME.** *The Rome Scholarships* in (i.) Architec-

ture, (ii.) Mural Painting, (iii.) Sculpture, (iv.) Engraving. Each of the value of £250 p.a., tenable for 2 yrs. Open to Brit. subjects of either sex who are unmarried and under the age limits prescribed by the Faculties conducting the annual competitions. (v.) *The Abbey Scholarship* in Mural Painting tenable for 1 yr. and in other respects similar to the Rome Scholarships. (vi.) *The Bernard Webb Studentship* for the historical and critical study of Architecture, tenable for 1 yr. and open to students who have been members of the Architectural Assn. for 4 yrs. Value £250. (vii.) *Rome Scholarship in Archæology* and (viii.) *Rome Scholarship in Mediæval Studies* each of the value of £150 p.a., tenable for 2 yrs., and open to students under 30 yrs. of age, awarded in alternate years; (ix.) *Rivoira Scholarship* in Mediæval Archæology, value £132 and tenable for 1 yr. Open to male graduates of Oxford and Cambridge; awarded every other year. (x.) *Pelham Studentship* in Archæology, value £100, awarded in alternate years by the Univ. of Oxford. Address of the Hon. General Secretary, British School at Rome, 1 Lowther Gardens, Exhibition Road, London, S.W.7, and of the Secretary, Faculty of Archæology, 50 Bedford Square, London, W.C.1.

BRITISH SCHOOL OF ARCHÆOLOGY AT ATHENS. Open from Nov. 1 to July 1. Any duly qualified British subject may be admitted as a member of the School and use the library. Students of the British School at Rome have the privilege of admission. There is residential accommodation at the School Hostel in Athens and at Knossos, Crete. Students also obtain special facilities for working in Museums and for travelling. The School awards a studentship of £100 each year tenable at the Univs. of Oxford and Cambridge in turn. About every 3 yrs. the *Sachs Memorial Studentship*, value £100, is open to all Univs. in the British Isles (next award for session 1938-39) and the *Macmillan Studentship*, £200 p.a. tenable for 2 yrs., open to men of British nationality. Funds are available from the *Seager Bequest* for the promotion and financing of excavations in Greece. Nominations must be sought through the Managing Committee. v. also *infra* Bursaries awarded by Royal Institute of British Architects. Further information may be obtained from the Secretary, British School of Archæology at Athens, 50 Bedford Square, London, W.C.1.

ROYAL INSTITUTE OF BRITISH ARCHITECTS. (i.) *The Athens Bursary in Architecture*, £100, tenable at British School at Athens. Open only to members of teaching staff of a recognized school of the R.I.B.A. Offered for award every year. (ii.) *The Henry L. Florence Bursary*, £350, for 1 yr., for the study of the Greek and Hellenistic Architecture of the Mediterranean Basin. Open to members of the R.I.B.A. Offered for award in alternate years. Next award 1938.

Further particulars from the Secretary, Board of Architectural Education, R.I.B.A., 66 Portland Place, London, W.1.

THE LONDON MUSEUM, Lancaster House, London, S.W.1. *Esher Research Studentship* for Archæology or History connected with London, offered biennially, value £300 p.a. Open to all graduates without restriction. Next award April 1938. For further particulars apply to the Secretary.

*Classics*

BRITISH ACADEMY.—*Cromer* Greek Prize, £40. Open to British subjects under 26 yrs. of age. Essays on subjects previously submitted for approval to be sent in before Dec. 31. Address—The Secretary, The British Academy, Burlington Gardens, London, W.1.

CAMBRIDGE UNIVERSITY. (i.) *Craven Fund*. Grants may be made to the Craven Student or to any person engaged in research in the Langs., Lit., Hist., Archæol. and Art of Ancient Greece and Rome, and the Compar. Philol. of the Indo-European Langs.

(ii.) *Sir Perceval Maitland Laurence's Bequest*. Grants not exceeding £100 p.a. may be made in aid of research.

*English Literature*

BRITISH ACADEMY. *Rose Mary Crawshay* Prize for English Literature, £100. Open to women of all nationalities for historical or critical work, preference being given to work regarding Byron, Shelley, or Keats. Suggestions of works (written or published within the 3 preceding yrs.) to be considered may be sent in at any time, and will be considered in April of each year. Address—The Secretary, The British Academy, Burlington Gardens, London, W.1.

*Geography*

GILCHRIST EDUCATIONAL TRUST. Studentship in Geography, £100 awarded biennially. *In abeyance*.

Address of the Secy. to the Trustees : 1 Plowden Buildings, Temple, London, E.C.4.

*History*

CAMBRIDGE UNIV. : GIRTON COLLEGE. Graduate Scholarship for Historical Research, £100. Usually open to graduates of any Univ. Offered from time to time.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. *See under General*.

LONDON MUSEUM. *Esher Research Studentship*, *see above*.

LONDON UNIVERSITY. (i.) *Julian Corbett Prize*, value £50, open to any investigator admitted to the Institute of Historical Research who has been working either there or, if a naval officer, under the advice of the Committee of the Institute for not less than one yr. prior to date of sending in work for competition. The work shall be either a dissertation or an edition of an original document or documents, or a report on material at home or abroad illustrating modern naval history. Intending candidates must, on or before Oct. 1 in year preceding entry for the Prize, submit for the approval of the Inst. of Hist. Research Committee the subject of proposed work, and without such approval no work will be eligible. The prize is awarded annually, and applications should reach the Sec., Institute of Historical Research, Malet Street, London, W.C.1, before Oct. 1.

(ii.) *Lindley Studentship*, value £120, awarded every 3rd yr. if there is a candidate of sufficient merit, for research in History to be undertaken

at the Institute of Hist. Research. Open to both sexes : preference to a graduate of the Univ. or to candidate prepared to work for a higher degree of the Univ. Applications as above, before May 30, 1940.

LONDON UNIV. : UNIVERSITY COLLEGE. *Sir William Meyer Studentships* (endowment, £3000). 1 in European Hist., 1 in Hist. and Geog. of India, about £120 each, tenable for 2 yrs. Open to graduates of Univs. of the Empire studying for approved higher degrees of the Univ. of London. Applications to the Secretary of the Coll. on or before June 1. Next award, June 1938—Hist. and Geog. of India.

MANCHESTER UNIVERSITY. (i.) *Edmund Roscoe Post-graduate Scholarship*, £50 for 1 yr., renewable for a second yr. Open to persons of British nationality who have studied Hist. in any Univ. or Univ. Coll. Offered alternately with the Pickles post-graduate studentship. Next award 1938. Last date for applns. June 15.

(ii.) *Pickles Post-graduate Studentship*, £50 for 1 yr., offered biennially, conditions same as for foregoing, except that there is no limitation to British subjects. Next offer 1939. Last date for applns. June 15.

### *History, etc., of British Empire*

THE ROYAL EMPIRE SOCIETY. (i.) *Walter Frewen Lord Prize* in Imperial Hist. Annually, value £25, for a monograph or essay (10,000-20,000 words) on a subject of Imperial Hist. embodying either the results of orig. work or an ordered and critical exposition of existing data. Open to undergraduates or graduates of any Univ. or Univ. Coll. in the Empire of not more than 4 yrs.' standing from their first degree. Next award 1939. Applns. to be received on or before Dec. 31, 1938.

(ii.) Grants from a small fund are made to facilitate the publication of orig. monographs embodying results of research relating to the British Empire overseas. Candidates must not be more than 35 yrs. on Dec. 31 of yr. of application. Monographs of not more than 60,000-80,000 words. Next award about end of Jan. 1939. Applns. before Dec. 31, 1938. Further particulars in each case from Asst. Secretary, Imperial Studies Committee, Royal Empire Society, Northumberland Avenue, London, W.C.2.

### *History and Geography of India*

LONDON UNIV. : UNIVERSITY COLLEGE. *Sir William Meyer Studentships*, see under History.

### *International Relations*

MANCHESTER UNIVERSITY. *Charles Harold Herford Exhibition*, £100 for 1 yr. payable quarterly. For study of International Relations, including Comparative Literature. Open to grads. of any Univ. The holder may be required to spend a part or the whole of the period of study abroad at an instn. or under conditions approved by the Senate. The Exhibition will normally be offered every 5 yrs. Next offer, 1938. Last date for applns. April 15.

*Law*

BIRMINGHAM UNIVERSITY. (i.) *The Sir Henry Barber Law Scholarship*, £350 for one year only, available for award in each year to a degree student or former degree student in Law in the Univ. desiring to pursue his or her legal studies as an articled clerk, or as a student in one of the Inns of Court and reading in chambers with a view to professional practice.

(ii.) *The Lady Barber Post-graduate Scholarship*, £350 for 2 yrs. only. Available for award (preferably every second yr.) to a student of special ability nominated by the Faculty of Law who has taken or qualified for the degree of LL.B. with Hons. in the Fac. of Law of the Univ. for the pursuance of his or her legal studies in some other Univ. approved for the purpose by the Fac. of Law in the Univ.

CAMBRIDGE UNIVERSITY. (i.) *F. W. Maitland Memorial Fund*. (Annual income about £100.) Grants may be made to any person engaged in any research in the History of Law or of Legal Language or Institutions, or for delivery of lectures, publication of works, etc., connected with these subjects.

(ii.) *Whewell Scholarships* in International Law, one at least annually of £100 for 2, with possible extension to 3 yrs., open to all persons whether already members of the Univ. or not who are under 25.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Fellowship in Scots Law, *see under* General.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship*, *see under* General.

LINCOLN'S INN, London, W.C.2. (i.) *Cassel Scholarships* (each to the value of £600, *i.e.* £200 p.a. for 3 yrs.), "for the encouragement of the study of the Law and the advancement of legal education." One to be awarded annually.

(ii.) *Cholmeley Scholarships*, each value £400. Four normally awarded annually to members of either Oxford or Cambridge Univ.

Candidates for both (i.) and (ii.) must be British subjects who intend to follow actual practice at the Bar in England or the teaching of Law in a Univ. in the U.K. The selected candidate, if not already a member of Lincoln's Inn, must become and remain one. Further particulars from the Under-Treasurer. Applications for the present year to be received not later than March 25, 1938.

*Mathematics*

CAMBRIDGE UNIV. : GIRTON COLLEGE. *M.T. Meyer Studentship* for research in Maths., or for a course of advanced study leading up to such research. Open to graduates of any Univ. Offered annually.

MANCHESTER UNIVERSITY. *Bishop Harvey Goodwin Mathematical Scholarship*, £60-£70 (in special cases of greater value) for 1 yr. Open to Hons. grads. in Maths. of Manchester or to other suitably qualified candidates intending to pursue research in Maths., Pure or Applied. Next offer 1938. Last date for applns. June 20,

*Modern Languages*

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. *See under General.*

LONDON CHAMBER OF COMMERCE. From the *Charles R. E. Bell Fund* two scholarships, value £150 each, will be offered in 1938 and annually until further notice for continuous residence and language study for not less than 6 months in a foreign European country. Open to approved male candidates between 16 and 23 yrs. of age whose parents are natural-born British subjects. Candidates must pass the Chamber's Higher examn. in English, and pass with distinction in one foreign language. Address—Commercial Education Dept. of the L.Ch.C., 69 Cannon St., London, E.C.4.

*Music*

EDINBURGH UNIVERSITY. *Richard Brown Scholarship, see under General.*

SCOTTISH UNIVS. *Sir James Caird Travelling Scholarship* in Music, *see under General (Travelling).*

*Oriental Languages*

GILCHRIST EDUCATIONAL TRUST. Scholarship in *Chinese*, or, in case of no suitable candidate, in *Arabic* or *Sanskrit*. In abeyance.

LONDON UNIVERSITY. *Ouseley Memorial Scholarships*, 1 in Arabic, 1 in Persian, 1 in Urdu (or, in certain circumstances, in Chinese, Sanskrit, Hindi, or Bengali). £50 each for 1 yr. in the first instance, tenable at a College or School of the Univ. or, provided the candidate has already so studied for an academic year, in an Oriental country. Open to candidates of European origin. Full particulars from, and applications (on a prescribed form before March 15) to, the Academic Registrar, Univ. of London, W.C.1.

*Philosophy*

CAMBRIDGE UNIV.: NEWNHAM COLLEGE. *Sarah Smithson Fellowship* in Psychology or Philosophy (incl. Class. Philos.), £250 p.a. for 3 yrs. Open to graduates of any Univ. Awarded on dissertation or other written work. Next award 1938. Applications to The Principal before May 1.

*Psychology*

*See Philosophy*

**8. COMMERCE**

BRADFORD CHAMBER OF COMMERCE, Commerce House, Bradford, Yorks. Endowment (John Speak Foundation), £40,000, established Dec. 1924, for making grants for maintenance of British-born students (preferably Yorkshiremen) in foreign countries with the view of promoting commerce between England and such foreign countries. Grants are for 6 months' residence, and may be renewed up to 18 months. Holders

will be expected to be affiliated to business firms of good standing in the countries they go to. Application forms (price 1s.) obtainable from the Secretary.

## 9. ECONOMICS AND SOCIOLOGY

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. *See under General.*

THE CO-OPERATIVE UNION. *Acland Travelling Scholarships* (Exec. Committee of the Labour Party and Co-op. Union Central Board) for investigation of industrial, social, or ednl. conditions abroad. £200-£250 for 9-12 months. Open to British candidates, 20-30 yrs. of age, with sufficient knowledge of foreign langs. (or who acquire it) for the work. Applications to Mr R. A. Howson (Sec. to the Trustees), The Co-operative Union, Ltd., 18 Prescot St., London, E.1.

THE GARTON FOUNDATION, 1 Lowther Gardens, Exhibition Rd., London, S.W.7. *Studentship*, value £400, for study, during a year or more, of social or economic problems of fundamental importance. Open to British subjects not exceeding 30 yrs. of age nominated (on invitation) by certain Universities of the Empire. Candidates must submit a thesis and propose a subject for research. Awarded ordinarily in alternate years. Applications by May 1, 1938. Last award 1936.

LONDON UNIVERSITY. (i.) *Leon Fellowship for Research*, preferably in the fields of Economics or Education, value £400 p.a., tenable in the first instance for 1 yr. It is not essential that candidates should be members of a Univ. Full particulars from and applications (before April 1) to the Principal, University of London, W.C.1.

(ii.) *Metcalfe Studentship* for women, value £70 for 1 yr., tenable at London School of Economics. Open to any woman graduate of a United Kingdom Univ. for research on some social, economic, or industrial problem approved by the Univ.; preference to a student proposing to study a problem bearing on the welfare of women. Further particulars from, and applications (before May 24) to, the Academic Registrar, Univ. of London, W.C.1.

LONDON UNIV.: LONDON SCHOOL OF ECONOMICS.

(i.) *Research Studentships*, £200 or £150 p.a. plus fees, tenable at the School for 2 yrs., for research in Econ. or Pol. Sci. are offered from time to time. Applns. by Sept. 12.

(ii.) *Women's Studentship*, £150 p.a. plus fees, tenable at the School for 2 yrs., for research in Econ., Hist., or Social Sci. Next award 1938.

(iii.) Two *Leverhulme Post-graduate Scholarships*, £120 for 1 yr., for course of vocational training (e.g. in Business Administration or Civil Service Course) in year immediately following graduation. Applns. by Sept. 12.

(iv.) *Bursaries* for Business Administration (not exceeding 4) equivalent to full fees, for post-graduate 1 yr. course in Business Administration. Open to graduates who can show evidence of financial need. Applns. by Sept. 12.

MANCHESTER UNIVERSITY. (i.) *Drummond-Fraser Research Fellow-*

*ship* in Econ. and Commerce. £100 for 1 yr. Open to graduates of any approved Univ. Offered annually. Applns. by June 1.

(ii.) *Jevons Studentship*, £120 for 1 yr., for investigation of some economic problem connected with the industries of Lancashire. Open to grads. of any Univ. Offered in every sixth year. Last award 1936.

(iii.) *Maclaren Cotton Industry Research Scholarship*, £100 for 1 yr. Open to grads. of not more than three years' standing, for encouragement of research in a subject bearing upon the cotton industry. Next offer 1939. Last date for applns. June 1.

## 10. EDUCATION

BOARD OF EDUCATION, Whitehall, London, S.W.1. A limited number of Studentships may be awarded to assist suitable teachers in recognized schools and instns., of not less than 5 yrs.' teaching experience, to undertake at Univs. or other instns. full-time courses of advanced study which may reasonably be expected to lead to improved teaching ability. If an academic course, it should be of at least post-graduate type. Proposals to carry out research embodying travel or the practical study of industrial conditions definitely connected with the teaching of technical subjects will be considered. The grant may be made for not less than a term or more than a year. The amount depends on the candidate's circumstances and the length and nature of course proposed, and the rate will not exceed £200. Further particulars and appln. forms obtainable from the Secretary.

THE CO-OPERATIVE UNION, *Acland Travelling Scholarships*. See under Econ. and Sociology.

LONDON UNIVERSITY. *Leon Fellowship for Research*. See under Economics and Sociology.

MANCHESTER UNIVERSITY. Graduate Bursaries, not more than 6 annually. Free entry to Diploma Course. Open to graduates or the equivalent, of not more than two and a half yrs.' standing, of any Univ. in Gt. Britain and Ireland. Preference, in the case of three, to grads. of Manchester. Applns. by June 20.

SIR RICHARD STAPLEY EDUCATIONAL TRUST. Constituted in 1919, to administer a fund to assist educational progress by subsidizing necessitous students, promoting educational experiment and research, etc. In 18 years it has assisted over 4000 students at universities. In 1933 the Trust published a report on the scholarship system with special reference to grants by Local Education Authorities entitled "The Poor Student and the Universities." *Address*—The Secretary, 32 Gordon Sq., London, W.C.1.

SOUTHAMPTON UNIVERSITY COLLEGE. An open Exhibition providing free instruction for a post-grad. course in Education is offered annually. Cannot be held in conjunction with any other scholarship or State-aided place in the Training Dept. Candidates must satisfy the Univ. of Cambridge as to their eligibility to sit for the Cambridge Post-grad. Certif. Examn. in Education. Further particulars from the Registrar.



## II. ENGINEERING (General)

BOARD OF EDUCATION, Whitehall, London, S.W.1. *Whitworth Scholarships* (maintained by Sir Joseph Whitworth's Foundation), five of £150 p.a. for 3 yrs., three of £150 for 1 yr. (value may be increased on proof of need), and two Senior Scholarships of £300 for 2 yrs. Open to British subjects under 24 yrs. of age for the middle group, and 26 for the first and last group, who have been engaged in handicraft in a mech. engineering workshop for at least 30 months; awarded on result of examn. held usually at end of April. Applications receivable up to Jan. 15. Regns. with syllabus obtainable (3d.) from H.M. Stationery Office, Kingsway, London, W.C.2.

MANCHESTER UNIVERSITY. (i.) *Osborne Reynolds Research Fellowship* for research in Eng. or in sciences most directly related thereto. £200 p.a., renewable. Open to graduates of any Univ. Appln. not later than May 1.

(ii.) *Joseph Roberts Greatorex Scholarship* for research in Eng., £200 p.a., renewable for a 2nd yr. (value may be increased if funds allow). Open to grads. of Manchester who have subsequently completed at least one yr.'s research in Eng. and to other suitably qualified candidates. Next offer 1938. Appln. not later than June 20.

SCOTTISH UNIVS. *Sir James Caird Travelling Scholarships* in Engineering, etc. See under General (Travelling).

## 12. ENGINEERING (Special Branches)

*Aeronautics*

ARMOURERS' AND BRASIERS' COMPANY, Armourers' Hall, 81 Coleman St., London, E.C.2. Research Fellowship in Aeronautics, £300 p.a., tenable for 2 yrs., awarded biennially or as vacancies occur. Open to British subjects, preferably under 30, who hold an honours degree or equivalent, in Engineering or Physics. Tenable at any laboratory approved by Committee of Award. Further particulars from the Clerk of the Company. Next award as from Oct. 1, 1938.

BUSK TRUSTEES. *Busk Studentship* for research in Aeronautics. Value about £150 p.a., tenable for 1 yr. with possible renewal for 2nd yr. Open to British subjects (not of Asiatic or African descent) under 25. Tenable at home or abroad subject to Trustees' approval. Applications to be received usually about the middle of June. Further particulars from Prof. B. Melvill Jones, Engineering Laboratory, Cambridge.

*Engineering, Mechanical*

BIRMINGHAM UNIVERSITY. (i.) *Jas. Watt Fellowship* in Mech. Engin., £250, tenable for 1 yr. in the Dept. of Mech. Engin., renewable. Candidates should be Hons. graduates in Engin. of a British Univ., preference to those who have had at least 1 year's experience of post-grad. research.

(ii.) *Jas. L. Norton Memorial Studentship*, £100, tenable for 1 yr. preferably in the Univ., for whole-time study of motor-cycle engin. problems.

See also Applied Science and Technol. and Engineering, General.

*Mining and Mining Engineering*

THE ROYAL SOCIETY, *Tyndall Research Fund*. See under Science (General).

*Naval Architecture and Marine Engineering*

THE INSTITUTION OF NAVAL ARCHITECTS, 2 Adam St., Adelphi Terrace, London, W.C.2. *Sir William White Post-graduate Scholarship* (part-time) in Naval Architecture (incl. Shipbuilding and Marine Eng.), £150 p.a. for 2 yrs., awarded biennially. Next award 1939. Other professional work may be carried on concurrently, subject to Council's approval. Open to British students under 30 yrs. of age who have attained distinction at either the R.N. Coll., Imperial Coll. (City and Guilds Engin. Coll.), Glasgow Univ., King's College, Newcastle-upon-Tyne, or Liverpool Univ., and have had practical experience in shipbuilding or marine eng. work. Nominations are made by the Governing Bodies of the above instns. to the Council of the Instn. of N.A.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851. Post-graduate scholarship in Naval Architecture. £250 p.a. for 2 yrs. for research work (for which no other emolument will be receivable) in problems connected with design and construction of ships and their machinery and in the development of the shipbuilding industry at home and abroad. Open to British subjects under 30 who have had at least 3 yrs.' practical experience as apprentices or otherwise and have passed with marked distinction through a course of study in Naval Arch. at, and been nominated by, the R.N. College, Greenwich, Univ. of Glas. or Liv., or King's College, Newcastle-upon-Tyne. The nominations are reported on by the Council of the Instn. of Naval Architects.

Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7.

**13. FISHERIES**

DEVELOPMENT COMMISSIONERS, 6A Dean's Yard, Westminster, London, S.W.1. Researches likely to lead to results bearing on the development and improvement of fisheries are eligible for advances from the Development Fund. These include occasional special grants to enable individual research workers to pursue original lines of investigation which may be recommended by the Commissioners' Advisory Committee on Fishery Research.

The Commrs. are also prepared to consider applications for additional grants for temporary assistants and for apparatus, etc., to enable members of the staff of a Marine Institution to prosecute special lines of inquiry.

LIVERPOOL UNIVERSITY. *Herdman Scholarship* in Marine Zoology, value, interest on £1020, for 1 yr., renewable for 2nd yr. Open to grads. of Liverpool or any other British Univ., qualified to carry on research at the Univ. and at the Port Erin or other Biological Station. Applica-

tions to the Dean of the Fac. of Science not later than first day of Summer Term.

MARINE BIOLOGICAL ASSOCIATION. *Ray Lankester Fund*, £100. Student Probationership, £200. See App. III., A. III. 1.

#### 14. JOURNALISM

LONDON UNIVERSITY. *Exhibitions* for courses in Journalism, varying in value from £60 to £100 p.a., tenable for 2 yrs. at King's Coll., are offered from time to time. Candidates who have matriculated in the Univ. must be not more than 17 and other candidates not less than 18, and not more than 20 yrs. of age on Sept. 30 in the year of examn. for the Exhibition. Particulars published early in each year, obtainable from the Academic Registrar, Univ. of London, W.C.1.

#### 15. MEDICINE AND SURGERY (General)

THE ASSOCIATION OF SURGEONS OF GT. BRITAIN AND IRELAND. *Moynihan Fellowship*, value £350 for 1 yr., awarded annually for study at specified clinics at home or abroad. Intended for young surgeons at commencement of career. Applications before Sept. 30 to the Hon. Secretary, 50 Wimpole St., London, W.1.

BEIT MEMORIAL FELLOWSHIPS FOR MEDICAL RESEARCH. Founded in 1909 by Sir Otto Beit, Bart., K.C.M.G., F.R.S., in memory of his brother Alfred, "to promote the advancement by means of research of Medicine and the allied sciences in their relation to Medicine." Open to graduates, men or women, of pure European descent, in any Faculty of a Univ. in the British Empire. Six Junior Fellowships, each of £400 p.a. more or less and usually tenable for 3 yrs., are awarded in July for work commencing in October. An extension to a fourth year at £500 is sometimes granted. Notice of each election is published 3 mos. in advance. Applications are considered by an Advisory Board. Senior Fellowships of £700 p.a., tenable for 3 yrs., may also be awarded to persons who have already held Junior Fellowships. Address of Hon. Sec. to the Trust—Prof. T. R. Elliott, M.D., F.R.S., University College Hospital Medical School, University St., London, W.C.1.

BIRMINGHAM UNIVERSITY. *Caroline Harrold Research Fund*. See under Science (General).

BRITISH MEDICAL ASSOCIATION, British Medical Association House, Tavistock Sq., London, W.C.1. (i.) *The Ernest Hart Memorial Scholarship*, (ii.) *The Walter Dixon Scholarship*, annual value of each not more than £200. (iii.) 3 other Research Scholarships, annual value of each not more than £150.

Each Scholarship is tenable for 1 yr. commencing Oct. 1, with possible re-appointment for not more than 2 addnl. terms. Open to candidates recommended by the Science Committee as qualified to undertake research in any subject (incl. State Med.) relating to the causation, prevention, or treatment of disease. Preference given to members of med. profession. Scholars may be allowed to hold a junior appointment

## RES. SCHOLARSHIPS, ETC., MEDICINE (General) 857

at a Univ., Med. School, or Hospital. Another scholarship may be held concurrently, but the scholar shall not receive from the B.M.A. a sum greater than is required to bring the total received in one year to £400.

(iv.) *Science Grants* of an aggregate value not exceeding £150 p.a. for the assistance of research into the causation, treatment, or prevention of disease; preference to members of med. profession for investigation of problems directly related to practical medicine.

Applications for any of the above to be made on prescribed form to be obtained from the Secretary. Closing date for 1938-39 awards, May 7, 1938.

CAMBRIDGE UNIVERSITY. *Gwyneth Pretty Research Studentship*, of £200 for 3 yrs., for research in the Aetiology, Pathology, or Treatment of Disease with particular reference to diseases which disable in childhood or early life. Candidates need not be members of the Univ. Offered triennially or as casual vacancies occur.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND, *see under* General.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship*, *see under* General.

GROCERS' COMPANY. One scholarship each year for the encouragement of original Medical Research tenable for 2 yrs., of the value of £300 for first year, and of £450 for second yr. Cost of each scholar's apparatus, etc., will be defrayed up to £150 in any one year. No other scholarship to be held or remunerative employment undertaken without sanction. Open to British subjects under 35 yrs. of age. Applications in prescribed form receivable before April 1 by the Clerk, Grocers' Hall, Princes Street, London, E.C.2.

LONDON UNIVERSITY. (i.) *Mary Scharlieb Research Studentship* for post-graduate medical research. £250 for 1 yr., renewable for 2nd yr. To be awarded from time to time.

(ii.) *Rogers Prize*, value £100, for an essay or dissertation on some medical or surgical subject named and appointed by the Univ. and made public in such manner and at such time as the Univ. may determine. Open to all persons on the Medical Register of the U.K. The essay or dissertation to be addressed under a motto or device to the Vice-Chancellor, and delivered at the Univ. on or before 4 P.M. on the last day, other than Sunday, of April in the yr. of award. Next award, 1941.

LONDON UNIV.: LONDON SCHOOL OF MEDICINE FOR WOMEN. *Dr. Edith Pechey Phipson Post-graduate Scholarship* in Medicine. £95 for 1 yr. with possible renewal for 2 further yrs. Open to all medical women, with preference to those from or going to work in India. Forms of application to be obtained from and sent in by Mar. 1 each yr. to the Secretary, 8 Hunter Street, London, W.C.1.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St., Westminster, S.W.1, formerly the Medical Research Committee established in 1913 under the Nat. Health Insurance Act, transferred by Royal Charter,

1920, to a Committee of the Privy Council. They apply money voted by Parliament or received from private sources for the furtherance of medical research. *Research grants* are made to qualified investigators in respect of approved programmes of work to be carried out in Univs., Medical Schools, Hospitals, or other institutions. Names of recipients and accounts of the schemes of research supported are given in the Council's Annual Reports published by H.M. Stationery Office. Grants may be either personal, *i.e.* to provide remuneration in respect of whole-time or part-time work devoted to particular subjects approved by the Council, or for expenses necessarily incurred in the prosecution of the approved researches.

In addition, for training in research in clinical science and experimental pathology, the Council award *Post-graduate Studentships* of £200 p.a. inclusive, tenable for one year (up to 6 annually); and *Research Fellowships* of £250-300 p.a. plus expenses, tenable for one or two years (up to 4 annually). Fellows who show special ability in research may be considered for permanent appointments.

*Travelling Fellowships in Medicine* are awarded on behalf of the Rockefeller Foundation for periods of study abroad. £400 p.a. plus travelling expenses, tenable for one year (about 6 annually). See also under *Tuberculosis*.

A Tropical Medical Research Committee was established by the Medical Research Council in 1936 to enable it to take a more active part in the field of Tropical Medicine and to assist investigations in the tropics. Senior and Junior Research Fellowships are awarded (*see under* Tropical Medicine).

ROYAL COLLEGE OF PHYSICIANS, Edinburgh: (i.) *Freeland Barbour Fellowship*, value about £100, awarded biennially; next award May 1939. Open to those who have done original work for the most part in the two preceding yrs. in the Laboratory of the Royal Coll.

(ii.) *Lister Fellowship*, value about £100, awarded biennially, next award May 1938, open to licentiates or graduates in Med. or Surg. for original research carried on for the most part during the two preceding yrs. in the Laboratory of the Royal Coll.—preference to research in Bacteriology.

(iii.) *Parkin Prize*, value £100, offered triennially for an Essay in the English Lang. Open to competitors of all nations. Essays, which must bear a motto and be accompanied by a sealed envelope bearing the same motto outside and the author's name inside, must reach the Secretary not later than Dec. 31, 1938. Subject: "On the curative effects of carbonic acid gas or other forms of carbon in cholera, the different forms of fever, and other diseases."

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND. *Streatfeild Scholarship*, approximately £250 for 1-3 yrs., for research in Medicine or Surgery. For particulars apply to the Assistant Registrar, Pall Mall East, London, S.W.1.

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND. *Mackenzie Mackinnon Research Fellow-*

*ship*. For 1-3 yrs. Open to holders of med. qualification registrable in Gt. Britain or Ireland, or of a Univ. degree, nominated by a Med. School. Application to Secretary, Royal College of Surgeons, Lincoln's Inn Fields, London, W.C.2.

ROYAL COLLEGE OF SURGEONS, Lincoln's Inn Fields, London, W.C.2. *Leverhulme Research Scholarships*, two value £400 each, plus £100 for expenses, for 1 yr., renewable. For research in some biological or clinical problem of disease in man, either at the Buckston Browne Surgical Research Farm, Downe, Kent, or at the College laboratories. Open to British subjects holding a med. qualification registrable in the U.K. or a Univ. degree. Further particulars from the Secretary.

ROYAL SOCIETY. *E. Alan Johnston and Lawrence Fellowship*. See under Science (General).

ROYAL SOCIETY OF MEDICINE. *William Gibson Research Scholarship* in Medicine, £290 p.a. for 2 yrs., renewable for a third yr. Awarded from time to time to qualified med. women who are British subjects. Unrestricted travelling allowed for purposes of research undertaken. Applications to the Secretary, 1 Wimpole St., London, W.1.

WILL EDMONDS CLINICAL RESEARCH FUND, 68 Gt. Cumberland Place, London, W.1. *Will Edmonds Fellowship*, £500 for 1 yr., renewable annually for a total period of 5 yrs. Open to qualified and registered med. practitioners for clinical research in a metropolitan hospital. Applications to the Hon. Secretary.

## 16. MEDICINE AND SURGERY (Special Subjects)

### *Anatomy*

MANCHESTER UNIVERSITY. *Morrison Watson Fellowship* in practical and descriptive anatomy, £150 p.a. and occasionally more; renewable for 2nd yr. Open to persons with a medical qualification registrable in the U.K. or a degree of an approved Univ. Applns. not later than June 1.

### *Bacteriology*

LIVERPOOL UNIVERSITY. *John W. Garrett International Fellowship* in Bacteriology, £100 for 1 yr., offered annually, renewable for 2nd and 3rd yr. Failing a candidate in Bacteriol., the Profs. of Pathol. and Physiol. shall be invited to nominate a candidate. Open in the first place to members of Univs. and Med. Schools in the U.S.A., and of other foreign Schools. Applications to be sent to the Dean of the Fac. of Med. not later than May 31.

LONDON UNIV.: LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Road, London, S.W.1. *The Jenner Memorial Research Studentship*, £250 for 1 yr. with possible extension for 2nd year. Open to British subjects. Vacancies advertised in medical journals.

### *Bio-Chemistry*

See under 18, below.

*Cancer*

LEEDS UNIVERSITY. *Cancer Research Fellowships*, given through Yorkshire Council of the British Empire Cancer Campaign. 5 in number, value not exceeding £500. Tenable for 1, 2, or 3 yrs., renewable. Vacancies announced as they occur. Applns. to the Clerk to the Senate.

LONDON UNIVERSITY. *Laura de Saliceto Studentship* for advancement of Cancer research, value £150 for 2 yrs., renewable by annual re-appointment for total of not more than 5 yrs. Open to both sexes. The Studentship is a part-time appointment and may be held in conjunction with a physiol. or pathol. laboratory appointment or a clinical appointment affording special opportunities for study of Cancer. Vacancies in the Studentship will be advertised in the public press. Applications before July 1 of year of appointment. Further particulars from the Academic Registrar, Univ. of London, W.C.1.

MANCHESTER UNIVERSITY. *Pilkington Fellowship* in Cancer research. £300 p.a., renewable for 2nd yr. or more. Open to graduates in Med. or Surg. of any approved Univ. or Med. School, or to members or Fellows of the R. Colls. of Surgeons of England, Edinburgh, or Ireland, or Licentiates, Members or Fellows of the R. Colls. of Physicians of London, Edinburgh, or Ireland. Applns. by June 30.

[The following body does not make grants to individuals for research, but supports and promotes research by making grants to existing research organizations.]

THE BRITISH EMPIRE CANCER CAMPAIGN was founded in May 1923 to co-ordinate and support research on cancer throughout the Empire. The governing body includes representatives from most of the principal hospitals with cancer research depts. The Scientific Advisory Committee is appointed jointly by the Royal Society, the Medical Research Council, and the Campaign. The Radiology Committee of the Medical Research Council, with representatives of the Campaign, acts jointly for both bodies. *Address*—Capt. E. J. C. Chapman, M.C., Genl. Secy., 11 Grosvenor Crescent, Hyde Park Corner, London, S.W.1.

*Diseases of Children*

LIVERPOOL UNIVERSITY. *Ridgway Research Scholarship*, value about £94, tenable for 1 yr. for research in some branch or branches of Tuberculosis or crippling diseases of children. The Scholar must be a graduate in Med. of an approved Univ. (or hold a registrable qualification). Application, stating academic career and subject of proposed investigation, to be sent to the Dean of the Fac. of Med. not later than Sept. 30.

MANCHESTER UNIVERSITY. *Ashby Memorial Research Scholarship* in diseases of children. £100 offered triennially. Open to any med. practitioner registrable in England. Next award 1939. Last day of entry June 30.

*Neurology*

THE CHILD GUIDANCE COUNCIL, Woburn House, Upper Woburn Place, London, W.C.1. (i.) Three Fellowships in Psychology, each £150 for 6 months full-time or 1 yr. half-time training beginning in Oct., at the London Child Guidance Clinic, 1 Canonbury Place, Islington, N.1. Period of training may be adjusted in special circumstances. Open to candidates holding an Hons. degree in Psychol. or who have reached equivalent standard of knowledge. Teaching experience essential.

(ii.) Three Fellowships in Psychiatry, £300 for 1 yr. half-time training at the Clinic, beginning in Oct. Open to registered med. practitioners holding the D.P.M. or with psychiatric experience.

Further particulars and forms of appln. from the Secretary of the Council.

HENDERSON TRUST. *Henderson Research Scholarship*, £250 p.a. for 1 yr., renewable for 2nd or 3rd yr., for study and research in nervous and mental disorders. The work may be clinical, pathological, psychological, or sociological. Open to both sexes, fully qualified med. practitioners, holding a degree or other qualification of a British Univ., Coll. or School of Med., or to persons who have devoted themselves to the care of, or been specially interested in, mental defectives. Candidates must have shown capacity for original research. Applications to J. Johnston, C.A., Secretary to the Trustees, 190 West George St., Glasgow.

MANCHESTER UNIVERSITY. *Knight Fellowship* for study of the factors concerned in development of symptoms of mental disturbance. £150 offered triennially. Open to grads. of any Univ. Next offer, 1938. Applns. not later than June 1.

*Obstetrics and Gynæcology*

WALES, UNIV. OF: WELSH NATIONAL SCHOOL OF MEDICINE. *Ewen Maclean Research Scholarship* in Obstetrics and Gynæcology, £150 for 1 yr. Open to graduates of any approved Univ. or qualified med. practitioner. Applications to the University Registry, Cathays Park, Cardiff.

*Pathology*

CAMBRIDGE UNIVERSITY. (i.) *John Lucas Walker Studentship* in Pathological research, £300 p.a. for 3 yrs. Candidates need not be members of the Univ. Offered triennially or as casual vacancies occur.

(ii.) *Pinsent-Darwin Studentship* in Mental Pathology, of about £227 for 3 yrs. Conditions as for (i.) above.

THE LADY TATA MEMORIAL TRUST grants and scholarships. See under Science, General.

LIVERPOOL UNIVERSITY. *Garrett International Fellowship*, see p. 859.

LONDON UNIVERSITY. *Charles Graham Medical Research Fund*. A Scholarship in Pathology, value not exceeding £400 p.a. for 2 yrs., is awarded from time to time "to enable a young man to continue his pathological researches, and at the same time to secure his services to the School of Advanced Medical Studies connected with Univ. College



Hospl. as a Teacher under the direction of the Prof. of Pathology." Applicants should give names of 3 referees, including a Teacher of the Univ. or College in which he has conducted his studies in Pathology. The Scholar is required to undertake teaching as well as research work. Applications to the Academic Registrar.

LONDON UNIV.: IMPERIAL COLLEGE. *Henry George Plimmer Fellowship* in Pathology, about £230 p.a. Tenable at a recognized instn. at home or abroad, ordinarily for 1 or 2 yrs., but may be indefinitely prolonged. Candidates must be of British nationality. Further particulars from the Registrar of the College.

OXFORD UNIVERSITY. *Philip Walker Studentship* for Research in Pathology. At present £300 p.a. for from 1 to 5 yrs., not restricted to members of the Univ., open to women as well as men and tenable for 3 yrs., and, by permission, with a Demonstratorship in the Dept. of Pathology. Last award 1937.

### *Preventive Medicine*

MANCHESTER UNIVERSITY. (i.) *Sheridan Delépine Research Fellowship* in Preventive Medicine, £300 annually. Open to graduates in Med. of any approved Univ. or to med. practitioners with approved registrable qualifn. Next offer, 1938. Applns. by June 1.

(ii.) *Dr. Robert Angus Smith Scholarship*, £150 for 1 yr., renewable. For encouragement of research in Sanitary Science, tenable in Dept. of Bacteriology and Preventive Medicine or in Dept. of Municipal Engineering in the Fac. of Technology. Next offer, 1939. Last date for applns., June 1.

### *Tropical Medicine and Hygiene*

LONDON UNIV.: LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, Keppel Street, London, W.C.1. (i.) *Wandsworth Scholarship* for research in Trop. Med. and Hygiene £350 p.a., plus overseas allowance, for 1, 2, or 3 yrs. Preference given to a British subject.

(ii.) *Tropical Diseases Research Fund*. This fund exists for the purpose of research work at home or abroad by the School, in connexion with investigation into tropical diseases. Capital £21,000; income available about £1000 p.a. Grants both of capital and income are applied to specific research in trop. diseases from time to time.

(iii.) *Edward John Stanley Memorial Fund* (1909). Founded by the late Lord and Lady Sheffield. Capital £1200; the accumulated income is applied periodically, at the discretion of the Board of Management, in aid of specific pieces of research in trop. diseases.

(iv.) *Fishmongers' Company Studentship* providing a free course of study each year for the Diploma in Public Health.

(v.) *Avebury Memorial Fund*. Income approximately £80 p.a. for the creation of studentships or the making of grants for special research work in the subject of Entomology.

(vi.) *Andrew Balfour Memorial Fund*. Income approximately £40 p.a. available for the granting of two free studentships in Part II of the course of study for the Diploma in Tropical Medicine and Hygiene.

Further particulars from the Secretary of the School.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen Street, Westminster, S.W.1. *Junior Fellowships for Research in Tropical Medicine* are awarded to medical graduates for 2 yrs.' training at home and 1 yr. in the tropics; £300, £400, and £500 p.a. in successive years, with additional allowance while abroad and necessary expenses; up to 3 annually. *Senior Fellowships* are available for candidates who have held Junior Fellowships or have otherwise obtained equivalent experience; tenable for 3 yrs., mainly in the tropics; £600-£750 p.a., with additional allowance while abroad and expenses. Senior Fellows become eligible for permanent research appointments under the Council.

### *Tuberculosis*

LIVERPOOL UNIVERSITY. For *Ridgway Research Scholarships*, see under Diseases of Children.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St., Westminster, S.W.1. *Dorothy Temple Cross Research Fellowships*, usually £400 p.a., plus travelling expenses, tenable normally for 1 yr., are given for study of tuberculosis at approved centres abroad. Up to 5 awarded annually.

WALES, UNIV. OF: WELSH NATIONAL SCHOOL OF MEDICINE. *Cecil Prosser Research Scholarship* in Tuberculosis, £250 for 1 yr. Open to graduates of any approved Univ. or qualified med. practitioner. Applications to the University Registry, Cathays Park, Cardiff.

## 17. SCIENCE (General)

BEIT FELLOWSHIPS FOR SCIENTIFIC RESEARCH. Founded by the late Sir Otto Beit, Bart, K.C.M.G., F.R.S., in 1913 for advancement of Science by means of research. At present £240 p.a. for 2 yrs. subject to report at end of first year. Tenable at Imperial College of Sc. and Tech., London, under supervision of a Prof. Fellows are required to devote their whole time to their research and to hold no appointment, paid or unpaid, without sanction of the Trustees. Open to men or women under 25 yrs. of age, of European descent by both parents, who have taken a degree in any Univ. in the British Empire, or Diploma or Associateship of any College approved by the Trustees. Not open to holders of any other Scholarship or Fellowship. Elections, advertised 3 mos. in advance, are made annually in July. Applications should give full information as to qualifications, previous career, general character of proposed research, whether applicant has private means sufficient to carry on the research for 2 yrs. without aid of Fellowship, names of not more than 3 referees, including one on the staff of the Univ. or College or a College of the Univ. at which the degree, etc., was obtained. Testimonials should not be sent. Capacity for research, personal record, and importance of proposed research will be taken into consideration. Inquiries may be addressed to the Rector of the Imperial College, South Kensington, London, S.W.7.

BELFAST, QUEEN'S UNIVERSITY. *Musgrave Research Studentships*, 5 of £200 each, open to British subjects, graduates of at least one year's standing in a Univ. of the British Empire, for research in *Pathology*,

*Biology, Chemistry, Physics, Physiology.* Latest date for applications (10 copies and not more than 2 testimonials as to fitness for research)—June 1.

BIRMINGHAM UNIVERSITY. *Caroline Harrold Research Fund* (to assist research in the Faculties of Science and Medicine).

(a) Grants from this fund are made from time to time by the Faculty of Science to assist the Professors in their researches by the appointment of senior research workers.

(b) Grants may be made to registered medical practitioners (with preference for past students of the Birmingham Medical School) for research work in the Univ. or one of the associated hospitals.

Persons receiving grants either in Science or Medicine may be given the title "Caroline Harrold Research Fellow."

BRITISH FEDERATION OF UNIVERSITY WOMEN, LTD, Crosby Hall, Cheyne Walk, London, S.W.3. *Johnstone and Florence Stoney Studentship*, value £250, for research in biological, geological, meteorological or radiological science, to be carried out in Australia, New Zealand or S. Africa. Open to women graduates, or to those with equivalent of a degree, of the Univs. of Gt. Britain and Ireland born in the British Isles of British-born parentage who are members of the British or Irish Fedns. of Univ. Women (such membership is open to all women grads. or those with equivalent of degree). Candidates must be under 27 on Jan. 1 of year of award. Will be offered for 1939-40 and 1940-41. Further particulars and form of appln. from the Secretary.

CAMBRIDGE UNIVERSITY. *Gordon Wigan Fund*, £300 p.a., for scientific educn. or research.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. *See under General.*

THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH (16 Old Queen St., London, S.W.1) maintains a number of research stations, particulars of which are given in Appendix III.

The Department also makes grants to individual research workers, engaged mainly in Univs. and Colls., under the following headings: (a) Maintenance allowances to students to enable them to undergo training in research; (b) Senior Research Awards (strictly limited in number) to enable young investigators of exceptional promise and proved capacity to devote their whole time to original research; (c) Grants to investigators of acknowledged standing to enable them to develop lines of research of exceptional timeliness and promise.

During the academic year 1936-37 the numbers of grants made in these categories were (a) 121, (b) 14, (c) 59, of which 81, 4, and 43 respectively were new grants. The scheme is intended to supplement and not in any way to supersede existing provision, national or local, for post-graduate research. The grants are restricted in all cases to British subjects resident in Gt. Britain. Full particulars in the pamphlet, *Notes on Grants to Research Workers and Students*, obtainable from H.M. Stationery Office, Adastral House, Kingsway, London, W.C.2, price 2d.

Particulars of the existing Industrial Research Associations estab-

lished in co-operation with the Dept. are given in Appendix III. These include the Industrial Research Council of the National Federation of Iron and Steel Manufacturers and the Research and Standardization Committee of the Institution of Automobile Engineers, which, though not having the legal status of a research association, are regarded as equivalent to research associations.

Information as to the work of the Department will be found in the Annual Report for 1936-37 (Cmd. 5647) published by H.M. Stationery Office, price 3s.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship*, see under General.

THE LADY TATA MEMORIAL TRUST. Founded by the late Sir Dorabji Tata of Bombay as a memorial to his wife, the late Lady Tata. Provision is made for the award of research scholarships, prizes, or grants. The Trustees are advised by a Scientific Advisory Committee having its headquarters in London and by an Indian Committee in India. One-fifth of the net annual income is earmarked for the encouragement of scientific research by Indians in India or abroad, and the rest is to be used to assist research on diseases of the blood, with special reference to leukaemia: the assistance may take the form of grants, scholarships, or prizes, and the awards are open to persons of any nationality, including India. Further particulars from the Secretary of the Trust, Bombay House, Bruce Street, Fort, Bombay, or from the Secretary of the Scientific Advisory Committee, 138 Bedford Court Mansions, London, W.C.1. Candidates for the special awards to Indians should apply direct to Bombay.

LONDON UNIVERSITY. (i.) *Dixon Fund for assisting Scientific Investigations*. Income available for grants—about £310. Applications receivable by the Principal (from whom further particulars can be obtained) between April 1 and May 15. Full information required as to nature and objects of research proposed, estimated amount required (detailed estimate to be given), any previous grant received for same object, any apparatus of permanent value needed. Names of two referees to be given. Grants are made from the fund annually by the Senate for purchase primarily of apparatus and materials of a special nature to be used in scientific investigation. Instruments and specimens of permanent value purchased out of grants to be returned to the Univ. Published results of researches must contain a reference to the Fund, and 10 copies be supplied to the Univ. Preference given to applicants who are graduates of the Univ. or who undertake to work in a Dept. or School of the Univ. or other Instn. connected therewith.

(ii.) *Keddey Fletcher-Warr Studentships* for Post-graduate Research in Science to be conducted in the British Isles or other approved place. Value not less than £200 p.a. for 3 yrs., renewable. Open to men and women of European descent who are graduates of some British Univ. or have qualified for such graduation, but preference is given, other things being equal, to a graduate of London of small or no private means. Awardable from time to time as notified in the public press. Further particulars from the Academic Registrar, Univ. of London, W.C.1.

NOTTINGHAM UNIVERSITY COLLEGE. Three post-graduate scholarships in Pure and Applied Science up to the value of £100 each, together with a grant covering tuition fees and tenable for 1 or 2 yrs., may be awarded each year to suitable candidates. Open to graduates of any approved British Univ. Applications must be made not later than July 21.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851 offers: (i.) *Science Research Scholarships to Overseas Universities*, to enable selected students who have already completed a full University course and given sufficient evidence of capacity for scientific investigations to devote themselves for 2 yrs. to research work under conditions most likely to equip them for practical service in the scientific life of the Empire. Value, £250 p.a., with supplements in certain cases. Tenable ordinarily for 2 yrs., and in exceptional cases for 3 yrs., at any institution approved by the Commrs., but not, except in very special circumstances, in the country in which the scholar has received his scientific education; open to British subjects of age (except in very special circumstances) under 26 yrs. At present not less than 9 (Canada 3, Australia 2, S. Africa, N.Z., Irish Free State and India, 1 each) are offered annually, recommendations receivable (South Africa, Irish Free State, India, May 1) (Australia, N.Z., Canada, June 1) from the following Univs.: Alb., B.C., Dal., McG., Manit., Queen's (Ont.), Sask., Tor., and any of the Univs. of Australia, N.Z., S. Africa, the Irish Free State and India possessing post-graduate departments of science. A Scholar is not permitted to hold any position of emolument likely to conflict with the devotion of his whole time to the objects of the Scholarship, nor to accept any additional emoluments without the previous consent of the Commrs.

(ii.) *Senior Studentships*, at present 5 in number, each of £400 p.a. with supplements in certain cases, for 2 yrs. or, in special cases, for 3 yrs.; open to British subjects not (except in very special circumstances) more than 30 yrs. of age, on recommendation, receivable up to May 1, by Profs. and Heads of Depts. through the executive authorities of such Institutions as may be invited by the Commrs. to nominate; tenable at any Institn. at home or abroad approved by the Commrs. The student is not permitted to undertake any work likely to conflict with the devotion of his whole time to the objects of the studentship, but a limited amount of time may, with the approval of the Commrs., be spent in delivering an advanced course of lectures. He is not debarred from holding another position of emolument, but in such cases the Commrs. may modify the value of the studentship. Women are eligible for all the above.

Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7.

THE ROYAL SOCIETY, Burlington House, Piccadilly, London, W.1.  
(i.) *Foulerton Research Fund*. (a) Research Professorships, with stipend £1400-£1500 p.a. *Duties*: To conduct, in a place approved by the President and Council of the R.S., such original researches in medicine or the contributory sciences, on lines approved of by the President and Council, as shall be calculated to promote the discovery of the causes

of disease and the relief of human suffering. The Professors shall devote the whole of their time to research. Tenable for 5 yrs. in the first instance, the appointment being thereafter renewable for further periods of not more than 5 yrs. at a time. (b) Research Fellowships of £700 p.a., restricted to British subjects. *Duties*: To conduct researches in medicine or the contributory sciences, under the supervision and control of the Foulerton Research Fund Management Committee, to whom the Fellows will be required to report from time to time on the progress of their work. Tenable for 2 yrs. and renewable from year to year, with a maximal total tenure of 5 yrs. from the first award. Incumbents: (a) Prof. A. V. Hill; (b) Dr. C. S. Hallpike.

(ii.) *Yarrow Research Professorships* for research (whole-time) in Math., Physical, Chemical, or Engineering Sciences. Value, £1000-£1400 p.a. Tenable at a University or other place to be approved by the President and Council of the Royal Society for a period of 5 yrs., the appointments being renewable for further successive periods of 5 yrs. Incumbents: Prof. G. I. Taylor, and Prof. O. W. Richardson.

(iii.) *Mackinnon and Moseley Research Studentships*. Each of the value of £350 p.a. Tenable in the first instance for 2 yrs., but renewable in exceptional cases from year to year, total length of tenure not to exceed 5 yrs. The *Mackinnon Studentship* is for "furthering Natural and Physical Science, including Geology and Astronomy, and . . . original research and investigation in Pathology." Incumbent: Dr. G. W. Brindley. The *Moseley Studentship* is for "the furtherance of experimental research in Pathology, Physics, and Chemistry, or other branches of science, but not in Pure Mathematics, Astronomy, or any branch of science which aims merely at describing, cataloguing, or systematizing." Incumbents: Dr. W. Cawood, Dr. B. Woolf.

(iv.) *Smithson Research Fellowship* in Natural Science. The Royal Society hold the capital of the Fund in trust. The income is administered by a Joint Committee of the Society and the Univ. of Cambridge. The Fellowship, £800 p.a. (which may rise to £850 in 3rd and 4th yr. and thereafter to not more than £900), with superannuation provision, is open normally to British subjects of either sex, including subjects of the Dominions, Colonies, and Indian Empire; but the Committee may, in special circumstances, invite a foreigner of scientific distinction to apply. Preference to candidates not over 35 yrs. of age. The holder will work in the Univ. of Camb. if appropriate laboratory accommodation is available. Appointment (from Jan. 1, 1936) for 4 yrs. in first instance, may be renewed annually up to maximum period of 8 yrs. Incumbent: Dr. E. C. Bullard.

(v.) *Sorby Research Fellowship* for original Scientific research. The income, about £600, is devoted to maintaining a Fellowship tenable ordinarily in the Univ. of Sheffield for 5 yrs., renewable for further periods. No permanent duties outside the research work may be undertaken. Appointments are made by a Committee composed of 4 persons appointed by the Council of the R.S. and 3 appointed by the authorities of the Univ. of Sheffield. Incumbent: Dr K. Mellanby.

For all the above appointments applications are invited by public advertisement.

(vi.) *E. Alan Johnston and Lawrence Fellowship* (income about £500 p.a.) for increasing the knowledge of the causes of disease and conditions of healthy life. Incumbent : Dr. J. Michael.

(vii.) *Warren Fellowships* (income £700 p.a.) in Metallurgy, Engineering, Chemistry and Physics. Incumbents : Dr. A. J. Bradley and Dr. W. Hume-Rothery.

(viii.) *Scientific Relief Fund* (income about £700 p.a.) to aid scientific men or their families requiring assistance.

(ix.) *Minor Funds* : Tyndall Mining Research, income about £40 p.a. for a studentship ; Gunning, about £35 p.a. ; Joule, about £70 p.a.

(x.) *Government Grants for Scientific Investigations*. The conditions are notified annually in time for applications to be received by March 31. Only British subjects are eligible.

(xi.) *Medals*. Copley, for philosophical research (any country) ; Rumford (biennial), for useful discovery in Light or Heat, in any part of Europe ; Royal (2), for advancement of Natural Knowledge ; Davy for Discovery in Chemistry in Europe or Anglo-America ; Darwin (with grant of £100, biennial), for work in Darwinian field ; Buchanan (with money grant, quinquennial), for service to Hygienic Science or Practice ; Sylvester (with money grant, triennial), for Mathematical Research ; Hughes (with money grant), for discovery in Physical Sciences, particularly Electricity and Magnetism. The last four are open to foreigners as well as to British subjects.

## 18. SCIENCE (Special Subjects)

### *Bio-Chemistry*

LIVERPOOL UNIVERSITY. *Johnston Colonial Fellowship* in Bio-Chemistry, £100, tenable for 1 yr., offered annually. Failing a candidate in Bio-Chem., the Profs. of Pathol. and Physiol. shall be invited to nominate a candidate. Open in the first place to members of Colonial Univs. and Med. Schools (without, however, excluding Colonials who may possess British qualifications). Applications to be sent to the Dean of the Fac. of Med. not later than May 31.

LONDON UNIV. : LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Road, London, S.W.1. *The Grocers' Company Research Studentship*, in Bio-Chemistry, £250 p.a., tenable for 1 yr., with possible extension for 2nd yr. Open to British subjects. Vacancies advertised in appropriate journals.

LONDON UNIV. : UNIVERSITY COLLEGE. *Bayliss-Starling Memorial Scholarship*. See under Physiol. below.

### *Biology (Animal Morphology)*

CAMBRIDGE UNIVERSITY. (i.) *Balfour Studentship* in Biological research, especially in Animal Morphology, £300 p.a. for 3 yrs.; student need not be a member of the Univ., but must study in it for at least 3 terms. Offered triennially or as casual vacancies occur.

(ii.) *Balfour Memorial Fund*. Grants may be made from this fund

for original research in Biology, especially Animal Morphology, to the Balfour Student or to any other person engaged in such research.

### *Biometrics*

OXFORD UNIVERSITY. *Weldon Memorial Prize* (endowment, £1000), awarded once in 3 yrs., for contribution in 6 preceding yrs. to Biometric Science. Last award 1935.

### *Botany*

CAMBRIDGE UNIV.: GIRTON COLLEGE. *Ethel Sargant Studentship* for research in Botany, value £100. Offered annually. Usually open to women graduates of any Univ.

MANCHESTER UNIVERSITY. *Grisedale Scholarship for Biological Research*, £200 annually in either Botany or Zoology, for 1 yr., renewable for a 2nd yr. Open to persons who have studied Bot. or Zool. in Manchester Univ. or in some other approved instn. Next offer, 1938. (Prof. to Botany.) Last date for applns. June 1.

### *Chemical Engineering*

LONDON UNIV.: UNIVERSITY COLLEGE, Gower St., London, W.C.1. *Leverhulme Studentships* in Chemical Engineering, two, value £250 each for 1 yr., renewable for 2nd yr. Candidates must be holders of a good Univ. degree with Chem. or Engin. as principal subject and must either be engaged in or be definitely preparing to enter the chem. industry and have adequate knowledge, practical or otherwise, of factory or business conditions. The holders may take the ordinary course of study for the Coll. Dipl. in Chem. Eng. or a special course in the subject, or carry out orig. research. Applications not later than May 31 to the Secretary.

### *Chemistry*

CHEMICAL SOCIETY. The Research Fund of the Chemical Society was estab'd. in 1876 to assist investigators by defraying the cost of expensive materials. The income from the Fund, incl. that from the donation of the Goldsmiths' Company and from the Perkin Memorial Fund, amounts to about £700 a yr. The Committee meets in November to consider applications for grants. The income from the Goldsmiths' donation is mainly devoted to the encouragement of research in Inorg. and Metallurgical Chemistry, and that from the Perkin Memorial Fund for investigations connected with the Coal Tar and allied industries. The grants made during 1937 amounted to £653.

DURHAM UNIV.: KING'S COLLEGE, Newcastle-upon-Tyne. *Johnston Chemical Studentship* (£95) and *Prize* (£5), for 1 yr., awarded on the results of an examn. in Chem. with Crystallography or Mineralogy or Bio-Chemistry, tenable at the College, involving at least 24 hours per week throughout the session. Open to B.Sc. of any British Univ. of not more than 3 yrs.' standing from graduation. Evidence of previous training and ability to conduct an original Chem. investigation is required. Applications to Registrar.



INSTITUTE OF CHEMISTRY. *Pedler Research Scholarship* in Chemistry. See App. IV. 7.

MANCHESTER UNIVERSITY. *Sir Clement Royds Memorial Scholarship* in Chemistry, £200 for 1 yr., offered annually. Open to British subjects of Brit. descent born in, or inhabitants of, Lancashire, with preference to candidates born in, or inhabitants of, Rochdale. Next award 1938. Last date of appln. June 1.

RAMSAY MEMORIAL FELLOWSHIPS. The Trustees (Chairman, Sir Robert Waley Cohen, K.B.E.; Secy., C. O. G. Douie, University College, London, Gower St., London, W.C.1) award from time to time 3 Fellowships, value £300 a yr. for 2 yrs., for Chemical research. They can be held in any Univ. or other place in the U.K. possessed of the requisite facilities for research; also in exceptional circumstances in other parts of the British Empire, and, by special permission of the Trustees, elsewhere. One is limited to candidates nominated by the Univ. and the Royal Technical College, Glasgow. Fellowships are also provided in connexion with the following Dominion and Foreign countries: Canada, Czechoslovakia, France, Greece, Holland, Italy, Japan, Spain, and Switzerland. The value is normally £300 a year.

### *Mathematics*

See Arts (Special Subjects)

### *Metallurgy*

BIRMINGHAM UNIVERSITY. *William Gibbins Research Fellowship* in Metallurgy, £250 p.a., usually for 2 yrs. but renewable; tenable in the Dept. of Metallurgy. Candidates should be graduates who have had at least 1 yr.'s experience of post-grad. research. Established to encourage research into copper, brass, and non-ferrous alloys.

### *Physics*

BRISTOL UNIVERSITY. (i.) *George Wills Research Associateships* (3), minimum value, £300 p.a. Open. Vacancy unlikely for several years.

(ii.) *Arthur Prince Chattock Research Studentship*, minimum value, £150 p.a. Open. Date of next vacancy unknown.

Further particulars from the Secretary and Registrar.

CAMBRIDGE UNIV.: PEMBROKE COLLEGE. *Gabriel Stokes Studentship* for research in Physics, about £425 p.a. for 3 yrs., renewable for a term not exceeding 5 yrs. Open to graduates (preferably of Cambridge) of from 23 to 28 yrs. of age. Last award, 1937.

MANCHESTER UNIVERSITY. *John Harling Fellowship* for research in physical science. £200 and occasionally more; renewable for 2nd and possibly 3rd yr. Open to all persons who can furnish satisfactory evidence of ability to pursue research. Next award not fixed.

### *Physiology*

LIVERPOOL UNIVERSITY. *Garrett International Fellowship*, see p. 859.

LONDON UNIV. : UNIVERSITY COLLEGE, Gower St., London, W.C.1.

(i.) *The Bayliss-Starling Memorial Scholarship* in Physiol. and/or Bio-Chemistry (founded 1929) value about £120 p.a. with exemption from tuition fees, tenable for 1 to 3 yrs. Candidates must be graduates of the Univ. of London or any other Univ. approved by the College Committee for the purpose, or undergrad. of the Univ. of London or any other approved Univ. as aforesaid of suitable standing in Sci. or Med. Applns. to the Secretary of the Coll. early in May.

(ii.) *Sharpey Physiological Scholarship*, value about £112 for 1 yr., renewable from yr. to yr. In addn. to marked ability and superior knowledge, candidates must have skill and address in preparing microscopic demonstrations and in experiment, with reasonable aptitude and inclination for teaching. Facilities afforded for research in Anat., Histol., or Physiol. Further particulars from the Secretary.

MANCHESTER UNIVERSITY. *Robert Platt Scholarship* for research in Physiology, £90 for 1 yr., renewable for 2nd and possibly 3rd yr. Open to candidates between 18 and 25 on Jan. 1 in year of award, without further restrictions. Next award 1938. Applns. by June 20.

### Zoology

MANCHESTER UNIVERSITY. *Grisedale Scholarship for Biological Research*. See under Botany above.

ZOOLOGICAL SOCIETY, Regent's Park, London, N.W.8. The Society offers a research fellowship in Comparative Pathology, value £650 p.a., of unlimited duration, awarded in 1928 to Lt.-Col. A. E. Hamerton, C.M.G., D.S.O., late R.A.M.C. An Anatomical Research Fellowship (£400 for 5 yrs.) and an Aquarium Research Fellowship (£200 for 3 yrs.) are in abeyance.

## 19. THEOLOGY

CAMBRIDGE UNIVERSITY. *Hort Memorial Fund*, £65 p.a., for grants to persons engaged in Biblical, Hellenistic, or Patristic research, or undertaking connected therewith.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship*, see under General.

LONDON UNIV. : KING'S COLLEGE, Strand, London, W.C.2. Theological Exhibitions and Bursaries, six of £50 p.a. Open to grads. of any Empire Univ. or members of the Faculty who have passed the Intermed. B.D. Examn. Candidates must send in their names to the Dean on or before June 20 in each year.

NATIONAL CHURCH LEAGUE, Dean Wace House, Wine Office Court, London, E.C.4. *Grafton Scholarship*, value £65, to be awarded annually on the result of an examn. to be held each Sept. at Dean Wace House. Tenable at an Evangelical Theological College to be approved by the Ordination Candidates' Committee of the National Church League. Open to grads. of British (including Irish) Univs. who have not already entered a Theological Coll. Full particulars from the Secretary.

## B. DOMINIONS

## 20. CANADA

THE BANTING RESEARCH FOUNDATION, Toronto, was founded in commemoration of the discovery of insulin by Dr. F. G. Banting and Mr. C. H. Best. The income from the capital sum of approximately \$700,000 is available to aid in the work of the Banting and Best Department of Medical Research and also to make grants in aid of the solution of such problems of medical research as the Trustees consider should be supported. The grants may take the form of living expenses or of monies for the purchase of animals, apparatus and other materials necessary for the solution of the research. The Trustees have adopted the principle of not making grants for research which is to be carried out elsewhere than in Canada. From \$14,000 to \$15,000 are distributed in this way per annum to various workers usually attached to university laboratories. Joint Honorary Secretary-Treasurers: Dr. V. E. Henderson and Dr. D. T. Fraser.

MCGILL UNIVERSITY, Montreal. The *A. A. Browne Memorial Fellowship* (endowment, \$10,000), open to graduates of any recognized medical school. Special preference given to obstetrics and gynæcology.

NATIONAL RESEARCH COUNCIL, CANADA, Ottawa. In order to develop a corps of highly trained research men for the Univs., industries, and technical depts. of Dominion and Provincial Govts., the Council awards bursaries (value \$500), studentships (value \$600), fellowships (value \$700) and Special Scholarships (value \$750 and \$1000) for post-graduate training in Science. For a fellowship demonstrated ability to carry on independent research is required. *See also* Appendix III., B. I.

The Council also makes research grants to research workers in the Univs. and other research laboratories for specific investigations. (For further information, *see Canada Yearbook*, 1932, pp. 866-70.)

QUEEN'S UNIVERSITY, Kingston, Ont. (i.) Two Fellowships in Arts, \$500 each, for 1 yr. Open to men and women, B.A. in Hons. at Queen's Univ. or with an equivalent degree elsewhere. One of these may be awarded as a Travelling Fellowship, otherwise tenable at the Univ.

(ii.) Four Fellowships in Arts, \$500 and one or two of smaller value, for 1 yr. Open under same conditions as above. Applications not later than April 1 to the Registrar.

(iii.) *Milton Hersey Fellowship* for research in Chemistry, \$400 for 1 yr. Open to graduates of all Univs. and technical colleges. Applications up to May 1 to the Registrar. If no appointment made, further applications up to Sept. 2.

TORONTO, UNIVERSITY OF. (i.) Two open War Memorial Fellowships, value \$500 each, to be awarded to grads. of any approved Univ. in the Dominion of Canada enrolled or intending to enrol on the School of Graduate Studies for the purpose of proceeding to a degree in any dept. of the Univ. Particulars from the Secretary-Treasurer, Alumni Federa-

tion, 43 St. George St., Toronto 5. Applications to be made before March 1.

(ii.) Eight Special Open Fellowships of \$500, one of \$250 (three with free tuition), in the School of Graduate Studies, for students proceeding to the degrees of M.A. and Ph D.

(iii.) *The Alexander Mackenzie Research Fellowship*, two of \$500 each, for research in the depts. of Political Sci. and Hist.

(iv.) *The McCharles Prize*, value \$1000 in money, awarded from time to time for: (1) The invention or discovery of any new and improved process for the treatment of Canadian ores or minerals of any kind, after such process has been proved to be of special merit on a practical scale; or (2) for any important discovery, invention, or device that will lessen the dangers and loss of life in connexion with the use of electricity in supplying power and light; or (3) for any marked public distinction achieved in scientific research in any useful practical line. Open to any Canadian (*i.e.* any person Canadian born who has not renounced British allegiance), student or otherwise. In the case of (1) domicile in Canada is an essential condition.

(v.) *The James H. Richardson Research Fellowship* in Anatomy, value \$500 p.a., tenable for 1 yr., with possible renewal for not more than 2 addnl. yrs. Open to grads. in Med. of the Univ. and of such other Univs. and Med. Schools as may be approved by the Nominating Committee and to students in the Univ. who shall have completed the 3rd yr. of med. course. The holder must devote his whole time to investigation under the Prof. of Anat.

(vi.) *Charles Mickle Fellowship*. Endowment (\$25,000) awarded annually to that member of the medical profession who is considered by the Council of the Fac. of Med. of the Univ. to have done the most during the previous 10 yrs. to advance sound knowledge of a practical kind in medical art or science.

(vii.) *The Alexander McPhedran Research Fellowship* in Clin. Med., value \$1200 p.a., tenable for 1 yr., renewable. Open to grads. in Med. of the Univ. and of such other Univs. and Med. Schools as the Fac. of Med. may approve. The holder must devote his whole time to investigations under the direction of the Prof. of Med., to whom applications for nominations should be forwarded not later than May 1 of each yr.

(viii.) *The Nipissing Mining Company Research Fellowship* in Mining Engin., annual value \$1100. Open to grads. of any Univ.

(ix.) *The Ramsay Wright Research Scholarship* in Zoology, value \$600, for grad. work at the Univ. of Toronto.

### *Travelling*

THE CANADIAN FEDERATION OF UNIVERSITY WOMEN has founded a Scholarship enabling a woman graduate of a Canadian Univ. to study at a Univ. of any other country represented in the Internat. Federation. In general, preference will be given to those candidates who have completed at least 1 or 2 yrs. at graduate study and have a definite course of study or of research in view. Further information obtainable from

Miss Mabel Patrick, University of Alberta, Edmonton. Appln. to be made by letter not later than Feb. 1.

IMPERIAL ORDER DAUGHTERS OF THE EMPIRE. The I.O.D.E. award post-graduate scholarships for study in Britain. The list of post-graduate students for the session 1937-38 includes 2 girls and 7 men who come from British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, New Brunswick, Nova Scotia, Quebec, and Prince Edward Island. Address of the Order—182 Lowther Avenue, Toronto 4. *Cables*—Iode, Toronto.

QUEEN'S UNIVERSITY, Kingston, Ont. For Travelling Fellowship, *see above*.

ROYAL SOCIETY OF CANADA FELLOWSHIPS FUND, Ottawa. Ten annual Fellowships (with possible renewal) each of the value of \$1500 have been endowed for a period of 5 yrs. by the Carnegie Corporation to enable Canadian students of recognized and proven competence to prosecute investigations which promise to make important contributions to knowledge. Open on equal terms to men and women, ordinarily under 35 on Jan. 1 of year of appln. Save in exceptional circumstances, the work must be carried on at an institution outside of Canada. 1 Fellowship is open to a French, and 1 to an English, student of Lit., Hist., Anthropol., Sociol., Pol. Econ., or an allied subject, 1 in the Mathematical, Physical or Chemical Sciences, 1 in Geological Sciences, 1 in Biological Sciences; 5 distributed at discretion of the Board. A candidate should be a grad. of a Canadian Univ. or Coll., or have received an equivalent training in a Canadian instn. possessing adequate facilities in his particular subject; should, except in special cases, hold the Master's degree or its equivalent, or, preferably, have completed one or more years' work beyond that degree. Applications with all supporting papers must be in the hands of the Secretary not later than Feb. 1. Further particulars from the Secretary.

## 21. AUSTRALIA

AUSTRALIAN COUNCIL FOR EDUCATIONAL RESEARCH, 145 Collins St., Melbourne, C.I. (Cable address: Aceres). The only permanent educational establishment in Australia devoted to the purely professional interests of education and embracing all States. Being quite independent of existing organizations and having no administrative functions, it is able to express impartial opinions on ednl. problems. It also acts as a clearing-house of information on ednl. developments. It has been endowed for a period of 10 yrs. by the Carnegie Corporation of New York. Since its foundation in 1929 it has given financial support totalling £15,300 to 135 investigations and has published 50 reports. It advises teachers and administrators going abroad. Good progress is being made in supplying tests of attainments in the chief school subjects as well as tests of general intelligence. Library, c. 900 vols., freely available to all teachers. In Aug.-Sept. 1937 the Council organized an educational conference under the auspices of the New Education Fellowship. There were 21 speakers from 10 different countries. Meetings were

held in all seven capital cities. Total memberships were about 9000. Executive Officer: K. S. Cunningham, M.A., Ph.D.

**AUSTRALIAN SCIENCE AND INDUSTRY ENDOWMENT FUND.** Under the Science and Industry Endowment Act, 1926, the Commonwealth Government has established a capital fund, the income from which is to be used to provide assistance (a) to persons engaged in scientific research, and (b) in the training of students in scientific research. *Secretary*, G. Lightfoot, M.A., 314 Albert Street, East Melbourne, C.2, Victoria, Australia. (Cable and Telegraphic Address: Coresearch, Melbourne.)

## 22. NEW ZEALAND

**NEW ZEALAND DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, WELLINGTON, C.1, N.Z.** (Telegraphic Address: Research, Wellington). Two National Research Scholarships, tenable for one year, and of a value of £100, plus £25 for apparatus, books, etc., are awarded each year to Univ. graduates proposing to specialize in some branch of industrial research. These scholarships may be renewed for a further year.

**THE ROYAL SOCIETY OF NEW ZEALAND** (formerly the New Zealand Institute established in 1867), Wellington, administers several memorial funds from which awards are made at intervals for distinguished scientific work. From one, the Hutton Memorial Fund, grants for research work in natural history subjects are made. It publishes an annual volume of Transactions and Proceedings; quarterly parts available at 10s. each.

**NEW ZEALAND COUNCIL FOR EDUCATIONAL RESEARCH**, Southern Cross Building, Brandon St., Wellington. An independent organization was founded in 1934 on a 5 yrs.' grant from the Carnegie Corporation of New York for the purpose of conducting and supporting research in education. It is one of the avenues through which applns. for Visitors' Grants pass to the Carnegie Corporation and it administers the Art Galleries and Museums Fund given by the Corporation in 1936. Director, C. E. Beeby, M.A., Ph.D.

## 23. SOUTH AFRICA

**CAPE TOWN UNIVERSITY.** (i.) *Smartt Memorial Scholarship* for research in subjects bearing upon Agriculture. Approx. £200 p.a. for 2 yrs., but may be extended for a third year at the discretion of the Univ. Council. Tenable at the Univ. of Cape Town or at such other place in S. Africa as may be approved by the Senate. Open to candidates who possess an approved univ. degree. The next award will be made at the end of 1939 or 1940. Particulars and copies of the regns. governing the award of the scholarship may be obtained from the High Commissioner for the Union of South Africa, South Africa House, Trafalgar Square, London, W.C.2.

(ii.) *Jacobus Stephanus Marais Memorial Research Fund.* A post-grad. scholarship for research in Surgery, £450 p.a. for 2 yrs., with possible renewal for 3rd yr. The scholar must be of European descent

and Protestant denomination and must conduct his research work in S. Africa at, or under the direct control of, the Univ. of Cape Town. In any publication of the results of the research acknowledgment must be made of the fact that the work was carried out as Jacobus Stephanus Marais Memorial Research Scholar in the Univ. of Cape Town. First award 1937. Next award in 1939 or 1940. Further particulars from the High Commissioner for the Union of S. Africa, address as above.

DEPARTMENT OF AGRICULTURE AND FORESTRY, Union Buildings, Pretoria. £2500 for £200 p.a. and £50 p.a. scholarships in Agric., tenable overseas and locally, for grads. and undergrads. respectively. Further information obtainable from the Secretary for Agriculture and Forestry.

THE RESEARCH GRANT BOARD OF THE UNION OF SOUTH AFRICA. P.O. Box 7137, Johannesburg, deals with the following:

*Oversea Scholarships for Study of Commerce and Industries.* These scholarships are of the value of £250 per annum for periods of 2 or 3 yrs. Since its inception and up to 1929 the Board has allotted 10 of these scholarships. Since that year the award of these scholarships has been in abeyance.

*University Research Grants and Scholarships.* Since 1934 funds have been provided annually by the Union Dept. of Education for the award of University Research Grants and Scholarships. These have been administered by the Research Grant Board. Their primary object is to encourage the *training* of research workers in the Universities of the Union. 49 Scholarships and 39 Grants were awarded by the Research Grant Board during 1934, 1935-36 and 1937.

*Carnegie Corporation of New York.* The Board, on the invitation of the Carnegie Corporation assisted in the distribution and administration of funds contributed by the Corporation in support of research in South Africa. The programme for a period of five years, from 1928 to 1932 inclusive, included, in addition to grants for research purposes, travelling allowances for men and women based on the plan of the Guggenheim Fellowships of the United States of America. The Carnegie Corporation then placed a further sum at the disposal of the Research Grant Board for the support of research in S. Africa during the five years 1933 to 1937 inclusive.

RHODES UNIVERSITY COLLEGE, Grahamstown. Two scholarships, value £200 each, open to male British subjects, grads. of a British Univ. preferably under 25, to enable them to take Diplomas in Education to qualify for teaching in S. Africa. Applns. in writing to reach the Appointments Bd. of the candidate's Univ. by July 1, 1938. Residence at the College to commence Feb. 1939. Further particulars from the Secretary, Rhodes Trust, 17 Waterloo Place, London, S.W.1.

SIR HERBERT BAKER SCHOLARSHIP in Architecture, about £400 for 1 yr. Awarded at intervals. Open to British students of Architecture under 33, who have had at least 6 yrs.' architectural training, not less than 4 of which have been spent in S. Africa. Tenable in Europe for about 12 months, the greater part at the British School at Rome. Applns. to the Trustees, c/o The Registrar, Institute of S.A. Architects, P.O. Box 7322, Johannesburg.

WITWATERSRAND, UNIVERSITY OF THE, Johannesburg. *Herbert Ainsworth Scholarship* in Modern History, £150 p.a. for 2-3 yrs. (may be increased to £250 while studying in Overseas Univ.) plus £50 for books. Open to graduates of a S. African Univ. 1 yr. at Witwatersrand, free choice thereafter. Further particulars from the Registrar.

#### 24. INDIA

THE LADY TATA MEMORIAL TRUST grants and scholarships, *see* p. 865.

THE MAYNARD GANGA RAM PRIZE, value Rs. 3000, for a discovery, or an invention, or a new practical method tending to increase agricultural production in the Panjab on a paying basis. Some part of the discovery, invention, etc., must be the result of work done since the foundation of the prize in 1925. Open triennially to all, irrespective of caste, creed, or nationality. Govt. servants are also eligible. Applications in competition for the next award should be forwarded to the Director of Agriculture, Panjab, Lahore, from whom further particulars may be obtained. Essays and theses are not eligible for competition.

SIR MUNGALDAS NATHUBHAI SCHOLARSHIPS in Technology (2 every yr. and an additional one every 3rd yr.). Tenable in England. Rs. 2000 p.a. for 3 yrs., with possible extension. Open to Hindu graduates. Appln. to the Registrar, Univ. of Bombay.

#### C. MANDATED TERRITORY

##### 25. PALESTINE

HEBREW UNIVERSITY. *Lord Plumer Fellowship* in Arabic Studies (incl. Arabic Lit. and Moslem Hist., Religion, Art, and Archæol.), value £.P. 100 for 1 yr. Open to graduates of English, European, or American Univs. Candidates should have a working knowledge of Hebrew, and must reside in Jerusalem for not less than 6 months. The Fellowship is granted from a donation made annually by the Friends of the Hebrew Univ. of Jerusalem in London. Further particulars from the Registrar.

#### D. FOREIGN COUNTRIES

##### 26. BELGIUM

FONDATION GEORGE MONTEFIORE offers triennially a prize, value 18,000 francs, "au meilleur travail original présenté sur l'avancement scientifique et sur les progrès dans les applications techniques de l'électricité dans tous les domaines, à l'exclusion des ouvrages de vulgarisation ou de simple compilation." Secrétaire-archiviste de la Fondation George Montefiore à l'hôtel de l'Association, rue Saint-Gilles 31, Liège (Belgique).

##### 27. FRANCE

BOURSES UNIVERSITAIRES. *Bourses* which have recently been of the value of 8000 frs., plus free tuition, were established in 1931 by the



French Government to be awarded annually on the nomination of Vice-Chancellors and Principals to graduates of British and Irish Universities for study or research at French Universities. The number of bourses to be awarded in 1938 will be 3 or more. Further information is obtainable from the Secretary, Universities Bureau of the British Empire, 88A Gower Street, London, W.C.1, to whom nominations should be sent not later than June 30.

PRIX HOLLANDAIS, 10,000 fr., and PRIX D'AULT DU MESNIL, 1200 fr., for work in physical or prehistoric anthropology, usually awarded triennially. Last awards, Sept. 1935. Further particulars from the Secretary, Institut International d'Anthropologie, 15 rue de l'École de Médecine, Paris, VI<sup>e</sup>.

UNIVERSITY OF PARIS. *Bourse Curie* (Carnegie Foundation) in Radioactivity and nuclear Physics, amount variable. Tenable for 1 yr., renewable, at the Laboratoire Curie, Paris. Open to distinguished scientists of all countries. Inquiries to be addressed to Le Doyen de la Faculté des Sciences, l'Université de Paris.

## 28. GERMANY

DEUTSCHE AKADEMIE, Munich. *Thomas Carlyle Stipendium*, value RM. 1200, for study of German culture in any Univ. of the German Republic. Open to English and Scottish graduates of either sex (actual or intending teachers) of any English or Scottish Univ. on the nomination of Vice-Chancellors and Principals. Further information is obtainable from the Secretary, Universities Bureau of the British Empire, 88A Gower Street, London, W.C.1, to whom nominations should be sent not later than June 30

HANSEATIC SCHOLARSHIPS Four, each value RM 3000, offered annually to British graduates who wish to obtain a knowledge of German learning, culture and national life. Preference is given to candidates intending to study at the Univs. of Hamburg or Berlin. A knowledge of German is essential. Further particulars from Prof. H. G. Fiedler, The Lane House, Norwood Road, Oxford.

## 29. HOLLAND

ACADÉMIE DE DROIT INTERNATIONAL DE LA HAYE. A certain number of scholarships are awarded each yr. to persons attending the Académie who have written essays, reviews, or notable books on some branch of international law. Applications, accompanied by a copy of a scientific work published by the candidate, together with duly certified copies of Univ. or other diplomas, must be received by the President of the Curatorium before Mar. 31; they should be visaed by a professor of internat. law. Awards are made known on or about May 31. Particulars are obtainable from the Ministries of Public Edn. or profs. of internat. law in the various countries, and at the Secretariat, Peace Palace, The Hague.

VISSER INTERNATIONAL LAW PRIZE (triennial). Administered by Leiden Univ. (Legatum Visserianum). Maximum, 5000 guilders. Subject for next competition will probably be published in 1938.

### 30. JUGO-SLAVIA

JUGO-SLAV GOVERNMENT SCHOLARSHIP in History, Language, and Literature of Jugo-Slavia, open to subjects of Gt. Britain. 3000 dinars a month for 2 yrs. with possible extension for another yr. Tenable in Jugo-Slavia. Next vacant in Sept. 1939. Applns. to the Director of the School of Slavonic and East European Studies, 40 Torrington Sq., London, W.C.1.

### 31. SWEDEN

NOBEL PRIZES, founded by Alfred Nobel (d. 1896), awarded for contributions to the common good by workers in (a) *Physics*, (b) *Chemistry*, (c) *Medicine or Physiology*, (d) *Literature*, (e) *the Preservation of Peace*. The prizes, worth from Kr. 115,000 to Kr. 171,750 (1932) each, are awarded for (a) and (b) by the Swedish Academy of Science, for (c) by the Stockholm Faculty of Medicine, for (d) by the Swedish Academy of Literature, and for (e) by a committee elected by the Norwegian Storting. Among the categories of persons qualified to propose candidates for prize (e) are Univ. Professors of Political Science and Law, of History, and of Philosophy. Particulars can be obtained from Nobelstiftelsens Styrelse, Sturegatan 14, Stockholm, Sweden. Among prize-winners of past years the following have a special interest:

*Physics*: 1904, Lord Rayleigh; 1906, J. J. Thomson; 1907, A. A. Michelson; 1915, W. H. Bragg and W. L. Bragg; 1917, Ch. G. Barkla; 1923, R. A. Millikan; 1927, A. H. Compton and C. T. R. Wilson; 1928, O. W. Richardson; 1930, Sir Venkata Raman; 1933, P. A. M. Dirac; 1935, J. Chadwick; 1936, C. D. Anderson; 1937, C. J. Davison and G. P. Thomson.

*Chemistry*: 1904, Sir Wm. Ramsay; 1908, E. Rutherford; 1914, T. W. Richards; 1921, F. Soddy; 1922, F. W. Aston; 1929, A. Harden; 1932, Irving Langmuir; 1934, H. C. Urey; 1935, M. and Mme. Joliot-Curie; 1937, W. N. Haworth.

*Medicine or Physiology*: 1902, Sir Ronald Ross; 1912, Alexis Carrel; 1922, A. V. Hill; 1923, F. G. Banting and J. J. R. Macleod; 1929, Sir F. Gowland Hopkins; 1932, Sir Chas. S. Sherrington and E. D. Adrian; 1933, Th. Hunt Morgan; 1934, G. H. Whipple, G. R. Minot, and W. P. Murphy; 1936, Sir Henry H. Dale.

*Literature*: 1907, Rudyard Kipling; 1913, Rabindranath Tagore; 1923, W. B. Yeats; 1925, G. B. Shaw; 1929, Thomas Mann; 1930, Sinclair Lewis; 1932, John Galsworthy; 1936, E. O'Neill.

*The Preservation of Peace*: 1903, Sir W. R. Cremer; 1906, Theodore Roosevelt; 1912, Elihu Root; 1919, W. Wilson; 1925, Sir Austen Chamberlain and General Ch. G. Dawes; 1926, Aristide Briand and Gustav Stresemann; 1929, Frank B. Kellogg; 1932, Miss Jane Addams and Dr. Nicholas Murray Butler; 1933, Sir Norman Angell; 1934, Arthur Henderson; 1936, K. von Ossietzky; 1937, Viscount Cecil of Chelwood.

## 32. UNITED STATES OF AMERICA

THE INSTITUTE OF INTERNATIONAL EDUCATION, 2 West 45th Street, New York, has published a pamphlet entitled, *Fellowships and Scholarships open to Foreign Students for Study in the United States*, 1936 edition, which gives a very full list of such aids to advanced study. They are classified as follows: (i.) Unrestricted as to subject or nationality of holder; (ii.) for study in prescribed subjects, unrestricted as to nationality, and (iii.) for students from prescribed places.

In class (i.) there are more than 150 Fellowships for advanced study and research offered by 26 different Universities, and varying in value from free tuition to \$1500 a year. A number of Colleges and Universities (7) also offer student assistantships in various subjects open to qualified students of foreign birth. In class (ii.) there are several hundred Fellowships principally for research offered by the chief Universities and other learned bodies. In class (iii.) Fellowships for Research are offered to *Canadian* students by the American Library Association, the National Research Council, the Social Science Research Council, the Canadian Federation of Univ. Women, and the Pacific Coast Gas Assn. Fellowships for advanced study and research are offered to students in *Great Britain* by the American Association of Univ. Women, the Commonwealth Fund and the Rockefeller Foundation, as well as several of the large Univs. The list from which the above information is taken may be consulted at the Universities Bureau or at the American University Union, 1 Gordon Square, London, W.C.1.

Practically all the larger American Univs. offer scholarships and fellowships of \$200 to \$1000, which are open to foreign students in competition with American students for work of a graduate character. Most American Univs. close their scholarship lists about March 1. Bulletin of the Nat. Research Council, Washington, D.C., No. 94, 1934, price \$1, contains a list of fellowships and scholarships for advanced work in Science and Technology. The principal foundations offering Fellowships to British subjects for which application can be made in England are briefly described below.

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN, 1634 I Street, Washington, D.C., offers annually an International Fellowship, value \$1500, to enable a graduate to carry on 1 yr.'s research in some country other than her own. Open to members of any one of the 34 Nat. Fedns. belonging to the Intern. Fedn. of Univ. Women. Further information from the Secy., British Federation of University Women, Ltd., Crosby Hall, Cheyne Walk, S.W.3; or from the above. Applns. from British grads. must reach the office of the B.F.U.W. in October of the previous year.

CHOATE MEMORIAL FELLOWSHIP, \$2300. Awarded on nomination and recommendation of the Vice-Chancellor of Cambridge to a British subject coming from Camb. to study in any dept. of Harvard Univ. Failing a candidate from Camb. the Vice-Chancellor may select and appoint a candidate from any other Univ. in the U.K. Holder, 1934, 1935: G. L. Stagg, B.A. Trin. Hall.

COMMONWEALTH FUND FELLOWSHIPS, established 1925. Twenty-six awarded annually. Value about \$3000 each p.a., tenable for 2 yrs. in one of the 27 institutions belonging to the Association of American Universities (*see* list in Appendix VIII.) Candidates (who must be unmarried men and not over 30 years of age) are nominated by universities in Great Britain and Northern Ireland, and the final selections made by a Committee of Award, of which Sir Walter H. Moberly is Chairman. Among other conditions of tenure is a requirement that 3 months must be spent in travel in the U.S.A. at the close of the first year of study. Address of Committee—35 Portman Square, London, W.1.

ENGLISH-SPEAKING UNION'S SCHOLARSHIPS. For British men and women teachers. *Page Travelling Scholarships*, £50 each and complete hospitality in the United States for one month at any period of the year desired; Senior *Page Scholarship* for two months, women only, £100. Similar Scholarships given by the A.A.M., N.U.T., and I.A.A.M. (for members of those Assns only), value respectively £50 each. Two scholarships, also for women only, at the Chautauqua Institution, hospitality and free courses for 6 weeks. Applications receivable up to Feb. 19 by the E.S.U., Dartmouth House, 37 Charles St., Berkeley Sq., London, W.1.

ROSE SIDGWICK MEMORIAL FELLOWSHIP. Established by Americans in memory of a member of the British Educational Mission which visited the U.S.A. in 1918, in recognition of her service in the cause of Anglo-American friendship. Administered by the American Assocn of University Women. Value \$2000 (providing tuition and residence during term for 1 yr, and about \$400 in cash towards travelling expenses and incidental fees); tenable at any approved College or Univ. in the U.S.A. Open to women graduates who should be not more than 35 years of age and who are natives of Gt. Britain. Awarded biennially. Next award for 1938-39. Applns. by Jan. 1. Particulars from Secy., British Federation of Univ. Women, Ltd., Crosby Hall, Cheyne Walk, London, S.W.3.

UNION THEOLOGICAL SEMINARY, Broadway and 120th Street, N.Y. City. *The Mills Fellowship* in Theology, \$1000 for 1 yr, and the *Hugh Black, Jarvie and Sewickley Fellowships* in Theology, \$1200 each for 1 yr., for advanced post-graduate work. The Mills Fellowship open to theol. students of high grade, graduates of the English and Welsh Univs., the remainder to graduates of Scottish Univs. of similar standing. Applications for the Mills Fellowships to Dr. W. B. Selbie, 174 Banbury Rd., Oxford, for the remaining three to Prof. G. S. Duncan, St. Mary's College, St. Andrews.

## III

CENTRES OF SCIENTIFIC RESEARCH AND  
INFORMATION

## A. IN GREAT BRITAIN

## CENTRES OF SCIENTIFIC RESEARCH

## I. Botany and Agriculture.

- (a) Soils and Crops (England and Wales).  
(Scotland).  
(Northern Ireland).
- (b) Horticulture.
- (c) Animal Pathology (England and Wales).  
(Scotland).  
(Northern Ireland).
- (d) Animal Husbandry (England and Wales).  
incl. Animal (Scotland).  
Breeding (Northern Ireland).
- (e) Agricultural Economics.
- (f) Food Preservation and Transport.
- (g) Agricultural Engineering.

## II. Forestry.

## III. Fisheries and Preservation of Fish.

## IV. Tides and Meteorology.

## V. Industrial.

## VI. Pure Science.

## VII. Medical.

## CENTRES OF SCIENTIFIC INFORMATION

## VIII. Botany and Agriculture

IX. Industrial (England and Wales).  
(Scotland).

## X. Pure Science.

## XI. Medical.

B. IN THE DOMINIONS, COLONIES, DEPENDENCIES  
AND MANDATED TERRITORY

## CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

1. Canada.
2. Australia.

3. New Zealand.
4. South Africa.
5. India.
6. Bermuda.
7. Ceylon.
8. Malaya.
9. Newfoundland.
10. Sudan.
11. West Indies—Trinidad.
12. East Africa—Nyasaland ; Tanganyika (Mandated) Territory.

### C. INTERNATIONAL SETTLEMENT

13. Shanghai.

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## A. IN GREAT BRITAIN

### CENTRES OF SCIENTIFIC RESEARCH

#### I. BOTANY AND AGRICULTURE.

Some description is given under this head of the principal centres in the U.K. for advanced study and research in Agricultural Science and the cognate pure sciences, but much fuller information will be found in a brochure published by the Ministry of Agriculture and Fisheries at the instance of the Imperial Agricultural Research Conference, 1927, entitled *Facilities for Advanced Study and Research in Agricultural Science and Cognate Pure Sciences in the United Kingdom*. 1929. Price 1s. net. Post free.

#### (a) *Soils and Crops (England and Wales)*

1. ROYAL BOTANIC GARDENS, Kew, afford to botanists, especially from the Colonies, facilities for carrying out scientific investigations in the Library, Herbarium, Economic Museums, and the Jodrell Laboratory. The principal work carried out is systematic and economic botany within the British Empire. Plants of economic importance are grown in the gardens and sent out to various parts of the Empire. Information is also supplied on botanical matters to all parts of the Empire. Research work is carried out on matters relating to Economic, Systematic, and Phytogeographical Botany and also in Mycology. Botanists should apply to the Director (Sir Arthur W. Hill, K.C.M.G., M.A., Sc.D., D.Sc., F.R.S.) for permission to work at Kew.

2. IMPERIAL MYCOLOGICAL INSTITUTE, *see* p. 913.

3. THE NATIONAL INSTITUTE OF AGRICULTURAL BOTANY, Huntingdon Road, Cambridge, was established in 1919 to improve the yield and quality of farm crops by discovering and encouraging the use of better

varieties and better seeds. The two main branches of the work are (a) Crop Improvement, covering field trials of farm crops at six regular sub-stations in England and Wales, and occasionally at other centres, the distribution of seed of improved varieties, and at the Potato Testing Station, Ormskirk, the official trials of potatoes for immunity from wart disease, virus disease investigations, and general potato trials; (b) Official Seed Testing Station for England and Wales at Cambridge, which makes laboratory tests of the purity and germination of seed samples, and undertakes research work on seed problems. In approved cases facilities would be given for post-graduate research. Reports of work done are issued in the Institute's *Journal*. Periodical meetings of Fellows of the Inst. are held for discussion, etc. A course and examn. in the theory and practice of seed testing is usually held each alternate summer; fee for course (four to five weeks), £5 : 5s.; for examn., £1 : 1s. *Director*, . . . . . Inquiries to be addressed to the Secretary.

4. THE ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts., founded in 1843, is controlled by the Lawes Agricultural Trust (Endowment Fund, £100,000), with which the Incorporated Society for Extending the Rothamsted Experiments (founded 1904) co-operates. Annual grants are received from the Ministry of Agriculture, which also gives capital funds for approved purposes. The Station is organized into the following 10 depts.: Bacteriol., Bot., Chem., Fermentation, General Micro-Biol., Insecticides and Fungicides, Physics, Plant Pathol. (mycology), Plant Pathol. (entomology), Statistics. The station owns an area of over 500 acres of land for the purpose of farm and experimental fields, and a library of 25,000 vols.

Subject to certain conditions, the Station receives post-graduate students, scholarship holders, and others on leave from agricultural depts. overseas, some of whom work for higher research degrees in agric. or pure science. No fees are charged to voluntary workers for the supervision of their work, but a charge will be made for the supply of apparatus, chemicals, etc.

*Director*, Sir E. John Russell, D.Sc., F.R.S. All inquiries in the first instance should be addressed to the Secretary.

The WOBURN EXPERIMENTAL STATION now forms part of the Rothamsted organization; it consists of 138 acres of land, mainly light soil, Laboratory, Pot Culture, and Meteorological Stations.

In May 1929, as a result of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF SOIL SCIENCE was set up at Rothamsted as a central clearing house of information on soil problems throughout the Empire. Publication: List of publications relating to Soils and Fertilizers (monthly).

5. RESEARCH INSTITUTE OF PLANT PHYSIOLOGY, Imperial College of Science and Technology, South Kensington, London, S.W.7. The work of the Institute is mainly directed to the elucidation of the plant physiological processes underlying crop yield in the field and in glass houses. It works in close association with the Research Institutes at Rothamsted, Cheshunt, and East Malling. It is available for research

in general plant physiology, chemical physiology, and the physiology of fungi. The laboratories are well equipped on the chemical and electrical sides and also for experiments on the growth of plants under artificial light and controlled temperatures. Requests for admission, together with a full account of academic qualifications and training, should be sent to the Director (Prof. V. H. Blackman, M.A., Sc.D., F.R.S.).

For names of staff, v. p. 168.

6. PLANT BREEDING INSTITUTE, School of Agriculture, Cambridge. The main work of the Institute is connected with the problems of breeding improved types of the plants cultivated as farm crops in this country. Most progress has been made with cereal crops, but preliminary work on improving many other crops is being carried out, including brassicæ and the leguminous fodder crops. Work on virus diseases is carried out in a special station under the direction of Dr. R. N. Salaman. There are facilities for research work in plant breeding, genetics and cytology. The experiment grounds are equipped with bird-proof cages for the protection of the more important hybrid cereals, with greenhouses, storage rooms, and a small machine room.

The IMPERIAL BUREAU OF PLANT GENETICS, for crops other than herbage plants, has been established at the School of Agriculture for the collection and dissemination of information on this subject throughout the Empire. Publication: *Plant Breeding Abstracts* (quarterly).

Inquiries to be addressed to the Director of the Inst. (H. Hunter, M.A., D.Sc.).

7. WELSH PLANT BREEDING STATION, University College, Aberystwyth. This Station conducts researches related to plant breeding especially for farmers in high rainfall districts, at high elevations, and generally under conditions of low fertility. Chief attention is therefore given to herbage plants, with a view to producing high yielding, persistent, and leafy strains of certain grasses and clovers. Oats is the only ordinary arable crop receiving serious attention. The station is well equipped for research in the foregoing directions. There is a 2 yrs.' course for graduates studying for the Ph.D. degree. Members of staffs of research or teaching institutions and of the Govt. Departments of Agriculture are admitted for shorter periods. Applications should be addressed to the Director (R. G. Stapledon, C.B.E., M.A.), Agricultural Buildings, Alexandra Road, Aberystwyth, as long as possible in advance of proposed entry.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF PASTURE AND FORAGE CROPS has been established at the Institute for the collection and dissemination of information on this subject throughout the Empire. The Bureau issues *Herbage Abstracts*, *Reviews*, and *Bulletins*.

Besides the Agricultural Depts. of the Univs. in Gt. Britain and N. Ireland, and agricultural colls. which are constituent parts of Universities, such as the South-Eastern Agricultural College, Wye (Univ. of London), the following independent colls. undertake research work.



8. HARPER ADAMS AGRICULTURAL COLLEGE. Newport, Shropshire, provides facilities for research workers in Agriculture, or in Chemistry, Mycology, Entomology, Veterinary Science, Dairy Bacteriology or Economics in their application to Agriculture. THE NATIONAL INSTITUTE OF POULTRY HUSBANDRY is located at the College, and provides extensive facilities for poultry research. Reports are published in the form of separate bulletins as well as in journals, such as the *Journal of Agricultural Science*, *Bio-Chemical Journal*, and *Annals of Applied Biology*. Inquiries to be addressed to the Principal (Charles Crowther, M.A., Ph.D.).

9. MIDLAND AGRICULTURAL COLLEGE, Sutton Bonington, Loughborough, Leicestershire. Visitors admitted for research work in the Chemistry or Bacteriological Laboratories, or in dairying or costings, at 63s per week, including board and lodging. Reports on experiments and small matters of research are issued from time to time. Prospectus free; apply to the Principal (H. G. Robinson, M.Sc.).

10. SEALE-HAYNE AGRICULTURAL COLLEGE, Newton Abbot, Devon. On the College Estate of 339 acres, a farm of 315 acres is maintained. Research work is being carried out in connexion with insect and fungus pests, soil problems, plant breeding work with broccoli, economic investigations, dairy bacteriology and certain specific animal diseases, such as Johnes disease, mammitis, and contagious abortion. The college farm specializes in the production of Certified milk. Experts from overseas proposing to visit the College will be welcome, and arrangements can be made for them to work there temporarily. Results of experiments are published from time to time in pamphlets. Inquiries to be addressed to "The Principal" (W. Henderson Hogg).

### *Soils and Crops (Scotland)*

Persons wishing to avail themselves of the resources of any of the following centres (a) 11-16, (c) 7, (d) 5-7, should call in the first instance for suggestions and advice on the Department of Agriculture for Scotland, York Buildings, Queen St., Edinburgh, 2.

11. MACAULAY INSTITUTE FOR SOIL RESEARCH, Craigiebuckler, Aberdeen. The Institute, which was established through the generosity of Mr. T. B. Macaulay of Montreal, consists of laboratories and experimental grounds at Craigiebuckler, Aberdeen, and an experimental farm on peat land at Arnish Moor, Island of Lewis. It is the national soil research station for Scotland, and is under the management of a Joint Committee nominated by the three Scottish Agricultural Colleges, the University of Aberdeen, and the Department of Agriculture for Scotland. The main lines of work at the Institute are: Soil classification and surveys; advisory work; soil fertility investigations; the study of the poorer classes of soil, including peatland, of forest soils, of soil drainage; special investigations. Work carried out at the Institute under the supervision of the Director qualifies for the degrees of Ph.D. and D.Sc. at Aberdeen Univ. Facilities for research are offered and applicants are invited to communicate with the Director.

12. THE SCOTTISH SOCIETY FOR RESEARCH IN PLANT BREEDING (Station at Corstorphine, Edinburgh 12) was established to promote the discovery and the creation of improved races of crop plants adapted to Scottish conditions. Applications from voluntary workers to the Director of Research will receive consideration.

13. SEED TESTING AND PLANT REGISTRATION STATION AND PLANT PATHOLOGY SERVICE (Dept. of Agriculture for Scotland), East Craigs, Craigs Road, Corstorphine, Edinburgh, 12. This is the official Seed Testing Station for Scotland. In addition tests are carried out of varieties of agricultural plants, particularly potatoes and cereals, with a view to the official registration of new improved varieties. The Plant Pathology Service is provided for the investigation of, and research into various diseases of plants. Overseas students desiring further information should apply to the Secretary of the Dept. of Agriculture. *See* p. 886.

14. EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE, 13 George Square, Edinburgh, 8. Facilities are provided for post-graduate research work in soil science, agricultural bacteriology, and agricultural botany. Experimental Farm. Workers possessing the requisite qualifications may be entered for the Ph.D. degree of Edinburgh University. For staff, *see* p. 366.

15. NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, 41½ Union St., Aberdeen. Experiments on farm crops on the college farm at Craibstone, near Aberdeen; research work in entomology, grassland management and agricultural economics: results of experiments and research published in bulletins. For staff, *see* p. 352.

16. THE WEST OF SCOTLAND AGRICULTURAL COLLEGE, 6 Blythswood Square, Glasgow, C.2. Applications by experts in the service of the Government, Universities and Colleges, and from agriculturists and others interested in agriculture and its allied branches in the British Empire overseas for permission to visit the College or for copies of bulletins will receive attention. For staff, *see* p. 379.

### *Soils and Crops (Northern Ireland)*

Persons wishing to avail themselves of the resources of any of the following centres (a) 17-19, (c) 8, (d) 8-11, should call in the first instance for suggestions and advice on the Ministry of Agriculture for Northern Ireland, Stormont, Belfast; and of centre (f) 1 and 2 on the Dept. of Scientific and Industrial Research, 16-18 Old Queen St., London, S.W.1.

17. CHEMICAL [AND ANIMAL NUTRITION] DIVISION (Ministry of Agriculture, N. Ireland), The Queen's University, Belfast. Research work falls into two main sections: (i.) Animal Nutrition (*see* (d) 8 below); (ii.) Soil and fertilization problems. There is an Agricultural Research Station for crops and stock with a farm of 500 acres at Hillsborough, Co. Down.

18. PLANT BREEDING RESEARCH DIVISION (Ministry of Agriculture

N. Ireland), Stormont, Strandtown, nr. Belfast. The Division is concerned with the production of improved varieties of the agricultural crops of N. Ireland. Hitherto most time has been devoted to oats and flax.

19. SEED-TESTING AND PLANT DISEASE DIVISION (Ministry of Agriculture, N. Ireland), The Queen's University, Belfast. The chief investigations of this Division relate to (i.) the diseases and pests of oats, potatoes, flax, fruit, and vegetables, and (ii.) the problems concerned with seeds mixtures, grass land management, strain in grasses, and weeds.

### (b) *Horticulture*

1. LONG ASHTON FRUIT RESEARCH STATION (Univ. of Bristol), Long Ashton, nr. Bristol. The work of the Station is the investigation of problems relating to (i.) fruit culture; (ii.) diseases of horticultural crops, especially fruit crops; (iii.) fruit preservation and production, incl. cider-making and the storage of fruits; (iv.) willow cultivation and the utilization of osiers. The Station is also an advisory centre on these subjects. Adjoining the Station is a farm of c. 262 acres, about one-half of which is suitable for experimental work. At the associated CAMPDEN RESEARCH STATION, Chipping Campden, Glos., the main research is the investigation of problems relating to the commercial canning of fruits and vegetables. Intending workers at the Long Ashton Station should apply to the Director (Prof. B. T. P. Barker, M.A.), Long Ashton Research Station, nr. Bristol, and at the Campden Station, to the Director (F. Hirst, M.Sc.) of the latter Station, stating subject of work proposed and probable length of study.

2. EAST MALLING RESEARCH STATION, Kent. (The Kent Incorporated Society for Promoting Experiments in Horticulture.) Research work is being carried out in pomology, hop culture, plant pathology, physiology, bio-chemistry, entomology, insecticides and fungicides, and statistics. Besides issuing an Annual Report, the Institute publishes most of the results of its investigations in the quarterly *Journal of Pomology and Horticultural Science*. From time to time facilities are offered to graduate students for gaining experience in research in these problems, both in the field and laboratories. The Research Station is accepted by the Univ. of London as an instn. at which teachers may be recognized for the instruction of students pursuing courses of advanced study and research. Applications, with full details of qualifications and subjects of study proposed, to be addressed to the Director (R. G. Hatton, C.B.E., M.A., D.Sc.).

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF FRUIT PRODUCTION has been established at the Station for the collection and dissemination of information on this subject throughout the Empire. A quarterly journal, *Horticultural Abstracts*, is issued dealing with deciduous, tropical and sub-tropical fruit, and other perennial crops.

3. HORTICULTURAL RESEARCH STATION (Camb. Univ.), University

Farm, Huntingdon Road, Cambridge. The Director of the Station (D. Boyes, M.A.) is assisted by an Advisory Committee which includes members of the National Farmers' Union. The work of the Station is mainly concerned with the breeding of improved varieties of vegetables and with the pathology and chemistry of the more important vegetable crops. In addition, investigations are being carried out on the manuring of vegetables

4. EXPERIMENTAL AND RESEARCH STATION, Turner's Hill, Cheshunt, Herts. In the centre of the Lea Valley Glasshouse district. The aim of the Station is to investigate the many problems connected with the commercial cultivation of glasshouse crops. Advisory work is an important feature. Research workers are admitted to the laboratories for short periods when space is available. Reports are widely circulated. All inquiries should be addressed to the Director (W. F. Bewley, C.B.E., D.Sc.).

5. HORTICULTURAL COLLEGE FOR WOMEN, Swanley, Kent, conducts investigations into insect pests and fungus diseases of cultivated garden plants. Students on leave from other countries are welcome. Inquiries to be addressed to the Principal (Miss K. Barratt, C.B.E., D.Sc., A.R.C.S.).

6 THE BOARD OF GREENKEEPING RESEARCH, St. Ives Research Station, Bingley, Yorkshire. Founded in 1929 by the British Golf Unions' Joint Advisory Council and supported by voluntary subscriptions from Clubs in membership of the Unions and by limited support from other sports such as Bowls, Croquet, Lawn Tennis, etc. Investigations are being carried out on turf grasses from all aspects, with particular reference to the bents and fescues which make the best type of turf for fine lawns, for golf, etc. Experiment grounds, 18 acres. Extensive advisory bureau for use of supporting clubs. A limited number of voluntary workers admitted at any time during the year to whom laboratory facilities are available. Application to be made to the Director (R. B. Dawson, M.Sc., F.L.S.). Publications: Annual Report; *Journal* (half-yearly) 2s. 9d. post free; occasional pamphlets.

### (c) *Animal Pathology (England and Wales)*

1. THE BROWN ANIMAL SANATORY INSTITUTION, 149 Wandsworth Road, London, S.W.8. (See p. 161.)

2. RESEARCH INSTITUTE IN ANIMAL PATHOLOGY (Royal Veterinary College, London), Great College St., Camden Town, N.W.1. The aim of the Institute is to extend knowledge regarding the diseases of farm animals. The principal work undertaken hitherto has been concerned with contagious abortion in cows and mares, joint-ill in foals, John's disease, mastitis in cows, parasitic gastritis in ruminants, anaerobic disease of sheep, the infectious diseases of young calves. The work is organized in three divisions: Pathology (Morbid Anatomy), Bacteriology and Parasitology. Inquiries to be addressed to the Director (F. C. Minett, M.B.E., D.Sc., M.R.C.V.S.).

3. INSTITUTE OF ANIMAL PATHOLOGY (Camb. Univ.), Cambridge. It has laboratories and a field station in Milton Road, Cambridge. The Institute is working almost entirely on the diseases of farm animals. Special attention has been given to a variety of sheep diseases. Arrangements are made for courses of advanced study and research for Colonial veterinary officers and others who may desire them. Provision is also made for visitors to carry out specific investigations. *Director*—Prof. T. Dalling, M.R.C.V.S. Applns. should be addressed to the Secretary, School of Agriculture, Cambridge.

4. VETERINARY LABORATORY (Ministry of Agriculture and Fisheries), New Haw, Weybridge, Surrey. This Institution is now divided into two sides—a routine side, dealing with questions of diagnosis and the preparation or testing of certain biological products, and a research side which includes sections of bacteriology, pathology, parasitology, biochemistry, and poultry disease. The laboratory has excellent facilities for experimental work on the larger farm animals and on poultry. A limited number of post-graduate workers can be received.

THE IMPERIAL BUREAU OF ANIMAL HEALTH set up in accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, for the collection and dissemination of information on this subject throughout the Empire is housed in this institution. The Bureau publishes monthly a Journal of abstracts, the *Veterinary Bulletin*, and quarterly a full index of current literature relating to animal disease, *Index Veterinarius*.

The Foot-and-Mouth Disease Station, limited to experiments on that disease and providing accommodation for work with both small and large animals, is at Pirbright, some 10 miles from New Haw.

*Director* of the combined institutions (to whom communications should be addressed), W. Horner Andrews, D.Sc., M.R.C.V.S.

5. THE MOLTEÑO INSTITUTE OF BIOLOGY AND PARASITOLOGY, Downing St., Cambridge. *Telegrams*—Cambridge, 4577. This Institute was founded by Mr. and Mrs. Percy A. Molteno for the advancement of knowledge of parasitology in all its branches. Opened in 1921. There are 16 research rooms, a museum, special library, photographic room, accommodation for smaller animals, etc., and, if required, facilities for work on parasitic affections of larger animals may be obtained at the Univ. Field Laboratories. It is also well provided with apparatus and appliances for research upon general biology, chemotherapy, and the biology and morphology of parasites. The extensive collections of parasites (Vermes, Insecta, Acarina, Protozoa, Fungi) are accessible for study, the most notable being the Nuttall collection of Ticks, which, besides being rich in types, is one of the largest existing.

The scope of the work carried on is broadly biological, extending beyond the limitations set by professional schools, either medical or veterinary, in zoological and botanical laboratories, or in conjunction with agriculture and fisheries. Purely scientific as well as practical problems are dealt with.

Research workers, including those coming from the outside, may be admitted on application to the Director of the Institute (D. Keilin, M.A.,

Sc.D., F.R.S., Quick Prof. of Biology). The ordinary fee for research students is five gs. a term and two and a half gs. during six weeks of the Long Vacation (total £18 : 7 : 6 p.a.).

6. INSTITUTE OF AGRICULTURAL PARASITOLOGY (London School of Hygiene and Tropical Medicine), Winches Farm, Hatfield Road, St. Albans, Herts. The Institute specializes in the morphology, life histories, and bionomics of the internal parasites of domesticated animals, farm stock, poultry, and fur animals, and of the allied eel-worms which infest plants of economic importance. Facilities for advanced study and research are available for workers in associated depts. of the London School of Hyg. and Trop. Med. *Director*, R. T. Leiper, D.Sc., M.D., F.R.S. Applications for detailed information should be made to the Secretary, London School of Hyg. and Trop. Med., Keppel Street, London, W.C.1.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927 the IMPERIAL BUREAU OF AGRICULTURAL PARASITOLOGY for the collection and dissemination of information on this subject throughout the Empire has been established at the Institute.

#### *Animal Pathology (Scotland)*

7. ANIMAL DISEASES RESEARCH ASSOCIATION, Moredun Institute, Gilmerton, Midlothian, and a suite of bio-chemistry laboratories at the Royal (Dick) Veterinary College, Edinburgh, 9. Research has been principally directed to the diseases of sheep. Investigations are also in progress on grass sickness in horses, contagious bovine abortion, milk fever and lactation tetany in cows. Visiting workers are expected to defray the cost involved in any special work.

#### *Animal Pathology (Northern Ireland)*

8. VETERINARY RESEARCH DIVISION (Ministry of Agriculture, N. Ireland), Stormont, Belfast. Research is carried on into abortion and sterility in cattle, anti-tuberculosis vaccination, pneumonia in pigs, and diseases of poultry and sheep.

#### (d) *Animal Husbandry, including Animal Breeding (England and Wales)*

1. ANIMAL NUTRITION RESEARCH INSTITUTE (Camb. Univ.), School of Agriculture, Downing Street, Cambridge. Field work is carried out at the Animal Research Station on the University Farm, Huntingdon Road. The work of the Institute falls under two main heads : (i.) nutrition proper ; (ii.) the physiology of reproduction and growth. Members of the staffs of teaching institutions or of Govt. Depts. of Agriculture are admitted for short courses. The full course covers two or three yrs. Applications should be directed to the Secretary, School of Agriculture, Cambridge, as long as possible before proposed arrival.

2. NATIONAL INSTITUTE OF POULTRY HUSBANDRY (Harper Adams Agricultural College, Newport, Shropshire). (See (a) 8 above.) The

Institute carries out large-scale experimental work on the breeding, feeding, management, and housing of poultry and other small live stock. Inquiries to be addressed to the Principal of the College.

3. NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING (Univ. of Reading), Shinfield, near Reading, was established in 1912. It is concerned on the one hand with the fundamental problems of bovine nutrition, of the breeding of dairy cattle, of lactation and of the chemistry and micro-biology of milk and milk products, and on the other with the more immediate problems of the dairy industry, agricultural, chemical, bacteriological, and mechanical, arising during the production, handling, and distribution of milk, and during the manufacture of dairy products. The work is organized in four main departments: (a) dairy husbandry; (b) dairy bacteriology; (c) dairy chemistry; (d) physiology and bio-chemistry. In addition to laboratories and the Stenhouse Williams Memorial Library (opened 1934), the Institute possesses an experimental farm and a dairy in close proximity to the laboratories. No. of research staff, 33. A limited number of post-graduate workers can be received for a 2 or 3 yrs.' course of advanced study and research leading to higher degrees of the Univ. of Reading, etc. Voluntary workers may be admitted for shorter periods. Applications for admission should be addressed to the Director of the Institute (Prof. H. D. Kay, O.B.E., Ph.D., D.Sc.).

4. SMALL ANIMAL BREEDING RESEARCH INSTITUTE (Camb. Univ.), Storey's Way, Cambridge. Part of the field work is carried out at the Animal Research Station, Huntingdon Rd., Cambridge. The work includes genetical problems relating to rabbits and poultry. A limited number of applns. could be considered from visiting research workers who wished to spend a short period working in the Inst. (*Director*, Prof. R. C. Punnett, M.A., F.R.S.) Applns. should be addressed to the Secretary, School of Agriculture, Cambridge.

#### *Animal Husbandry, including Animal Breeding (Scotland)*

5. ROWETT RESEARCH INSTITUTE, Bucksburn, Aberdeen. The Institute is devoted to research on the chemistry and physiology of nutrition and allied subjects, including nutrition in relation to disease, and the application of nutrition in stock feeding and in human dietetics. There is laboratory accommodation for between 30 and 40 workers. Attached to the Institute is an experimental farm of 600 acres, with buildings designed for feeding experiments. *Director*, Sir J. B. Orr, D.S.O., M.C., M.A., D.Sc., M.D., F.R.S.

THE IMPERIAL BUREAU OF ANIMAL NUTRITION is centred at the Institute and acts as the clearing-house for information on the subject of nutrition.

Under the joint supervision of the Imperial Agricultural Bureaux Council, the Medical Research Council, and the Reid Library, which is attached to the Institute, there is published quarterly the *Journal Nutrition Abstracts and Reviews*.

Post-graduate research workers are admitted, and work at the Institute is recognized for doctorate degrees at Aberdeen Univ. Ad-

joining the Institute is Strathcona House, the headquarters of a residential club known as the Strathcona Club. Workers and overseas visitors are eligible for membership of the Club and Dominion visitors are given a prior claim to bedroom accommodation.

6. HANNAH DAIRY RESEARCH INSTITUTE, Kirkhill, nr. Ayr. This Institute was established in 1928 for the study of problems relating to the production and distribution of milk, and to the manufacture of dairy products. At present work is being concentrated along biological lines, particularly as regards the physiology of milk secretion, the nutrition of the dairy cow, and the study of bovine disease. Work is also being undertaken on problems connected with the processing of milk and of milk products.

The Institute possesses laboratory accommodation for workers in physiology, bio-chemistry, pathology, and bacteriology, while opportunity for investigations in animal husbandry is available on the Institute's dairy farm. Opportunity is also available to post-graduate students to study for higher degrees of the Univ. of Glasgow. Applications for permission to work in the laboratories should be addressed to the Director.

7. INSTITUTE OF ANIMAL GENETICS (Edinburgh Univ.), King's Buildings, West Mains Road, Edinburgh, 9. The Institute aims at securing and disseminating knowledge relating to the physiology of reproduction and of inheritance, with special ref. to animals of economic importance. The equipment comprises an Experimental Farm near Edinburgh with dairy cattle and pigs. At the Institute itself accommodation is provided for small animals. Facilities are available for graduates proceeding to a higher degree at Edinburgh Univ. and for officers of the Colonial Agricultural and Veterinary services. Senior research workers may work at their own problems. Owing to the expense of work with larger farm animals an additional fee is charged to students requiring such material, and this fee may be increased if the cost of the projected study is not covered by such a fee. *Director*, Prof. F. A. E. Crew, D.Sc., Ph.D., M.D. Applications for admission should be made to the Secretary to the Institute.

In accordance with the recommendation of the Imperial Agricultural Research Conference held in London in 1927, the IMPERIAL BUREAU OF ANIMAL GENETICS was established at the Institute of Animal Genetics for the collection and dissemination throughout the Empire of information bearing on this subject. Publication: *Animal Breeding Abstracts* (quarterly).

### *Animal Husbandry (Northern Ireland)*

8. [CHEMICAL AND] ANIMAL NUTRITION DIVISION (Ministry of Agriculture, N. Ireland), The Queen's Univ., Belfast. (*See* (a) 17 above.) The Division is working on problems concerned with the nutrition of farm animals. Particular attention is being paid to pig nutrition and a study of the mineral metabolism of laying pullets is in progress. Poultry nutrition work is also being carried out in collaboration with the



Rowett Research Institute and the Poultry Depts. of the Scottish Agricultural Colleges. An experimental plant for poultry nutrition has been established at Hillsborough, Co. Down, in connexion with the work of the Division.

9. [CROP AND] ANIMAL HUSBANDRY RESEARCH DIVISION (Ministry of Agriculture, N. Ireland), Agricultural Research Institute of N. Ireland, Hillsborough, Co. Down.

10. AGRICULTURAL RESEARCH INSTITUTE, Hillsborough, Co. Down. The Institute consists of (a) an experimental farm of 500 acres mainly devoted to work in animal nutrition; (b) a poultry plant with a capacity for 3000 birds devoted to research work in nutrition. The Institute is under the management of a Board of Trustees representative of the Ministry of Agriculture, the Queen's University Faculty of Agriculture, the Ulster Farmers' Union, and the Ulster Agricultural Organization Society.

11. DAIRY BACTERIOLOGY DIVISION (Ministry of Agriculture, N. Ireland), The Queen's Univ., Belfast. The main work of this Division falls under two heads: (i.) Graded milk; (ii.) Control of Creameries. The Division is devising methods for the control of butter and cream manufacture in creameries. It also affords advisory services in connexion with general bacteriological problems.

#### (e) *Agricultural Economics*

AGRICULTURAL ECONOMICS RESEARCH INSTITUTE (Oxford Univ.), Parks Road, Oxford. The work of the Institute embraces fundamental research in Agricultural Organization and the investigation of the problems of Farm Management, the distribution of Farm Produce, and Supplies and Prices. The Institute is open to post-graduate students with a standing entitling them to read for the B.Litt., B.Sc., or D.Phil. of Oxford Univ. and who intend to study for one of these research degrees. *Director*, C. S. Orwin, M.A. Inquiries should be addressed to the Secretary.

#### (f) *Food Preservation and Transport*

1. LOW TEMPERATURE STATION FOR RESEARCH IN BIO-CHEMISTRY AND BIO-PHYSICS (Dept. of Scientific and Industrial Research in conjunction with Camb. Univ.), Cambridge. (See V. 7 below.) The work in progress falls under the following heads: (i.) Plant problems; (ii.) Animal problems; (iii.) Fungal and bacteriological problems; (iv.) Canning problems; (v.) Engineering problems; (vi.) Problems of salting and smoking. *Superintendent*, F. Kidd, M.A., D.Sc.

2. DITTON LABORATORY (Dept. of Scientific and Industrial Research), East Malling, Maidstone, Kent. Research is carried out on the storage and transport of fruit and vegetables and on cognate problems in engineering. The laboratory includes an experimental refrigerated ship's hold with a capacity of 120 tons. *Superintendent*, C. West, D.Sc.

3. THE BIOLOGICAL FIELD STATION (Imperial College of Science and

Technology), Hurworth, Slough, Bucks, was established in 1929 by grants made by the Empire Marketing Board, for the conduct of research on the scientific problems underlying the importation of stored products of all kinds. It has since been developed for the training of advanced students in research and biological field work and comprises several laboratories for research in entomology, physical chemistry basis to biology, plant pathology and insect and plant ecology. Twenty-five acres are available for field collecting and for experimental plot work. The field station comprises insectaries, constant temperature rooms, glass-houses, a special laboratory with refrigerator, and fumigation chambers, including one for work on a commercial scale. *Director*, Prof. J. W. Munro, M.A., D.Sc. For names of staff, *see* p. 168.

### (g) *Agricultural Engineering*

INSTITUTE FOR RESEARCH IN AGRICULTURAL ENGINEERING (Univ. of Oxford), 10 Parks Road, Oxford. The aim of the Institute is to undertake research in all depts. of agricultural engineering. These include : (i.) The intensive use of machinery on the farm (Power Farming), with special attention to sources of power (tractors, etc.), and to modern methods of farming (combine harvester-thresher, etc.) ; (ii.) Implements ; (iii.) The use of electricity on the farm ; (iv.) Field drainage. The Institute also conducts tests under the Ministry of Agriculture's Testing Scheme and has an extensive advisory service. Inquiries to be addressed to the Director (S. J. Wright, M.A.).

## II. FORESTRY.

IMPERIAL FORESTRY INSTITUTE, Oxford, *see* p. 275.

## III. FISHERIES AND PRESERVATION OF FISH.

Persons wishing to avail themselves of the resources of any of the following centres 4, 5, and 7 should call in the first instance for suggestions and advice on the Ministry of Agriculture and Fisheries, 43 Parliament St., London, S.W.1 ; for centres 9 and 10 on the Fishery Board for Scotland, 101 George St., Edinburgh ; and for centre 11 on the Dept. of Scientific and Industrial Research, 16 Old Queen St., London, S.W.1.

1. MARINE BIOLOGICAL ASSOCIATION. A number of research tables at the Plymouth Laboratory are provided free of cost on the nomination of Governors (among others the Univs. of Oxford and Cambridge) and Founders of the Marine Biological Assocn. of the United Kingdom. *The Ray Lankester Fund* provides for the payment of £100 to an Investigator to be appointed from time to time by the trustees on condition of his spending at least 5 months in carrying on researches at the Laboratory. There is a post of Student Probationer open to Honours graduates, tenable for 2 yrs. at £200 p.a. For full particulars application should be made to the Director and Secretary to Council (S. Kemp, Sc.D., F.R.S.), Citadel Hill, Plymouth, Devon.

2. DOVE MARINE LABORATORY, Cullercoats, Northumberland. The

Laboratory is the property of King's College, University of Durham, and is well fitted for research in marine zoology and botany and in physiology. Application for tables should be made to the Director, Professor A. D. Hobson, Zoological Department, King's College, Newcastle-on-Tyne. Special facilities for post-graduate research.

3. MARINE BIOLOGICAL STATION, PORT ERIN, Isle of Man (Dept. of Oceanography, Liverpool Univ.). *Director* (Acting for the Prof. of Oceanogr.), R. J. Daniel, D.Sc. This seaboard station for biological research includes 2 large class-rooms or laboratories; a well-equipped biochemical laboratory, 14 small working rooms, library, dark-room and stores, workshops; an aquarium and small museum; and a fish-hatchery and open-air ponds. Accommodation is provided for both undergraduate students and investigators at all times in the year. Application for work-places should be made to Mr. J. R. Bruce at the Station. A limited number of research (post-graduate) students can also be accommodated at the Dept. of Oceanography at the Univ. Application to be made to the Registrar.

Accommodation for students and researchers in Marine Biol., particularly on the bio-chemical side, is provided at the Station. Applns. as above.

4. FISHERIES LABORATORY, Lowestoft. The main Laboratory of the Fisheries Department of the Ministry of Agriculture and Fisheries, well equipped for deep sea research. A research trawler and a motor-vessel are kept in commission during the greater part of the year. There is no special provision for outside workers, but duly accredited persons interested in fishery research will be given facilities on application to the Director.

5. FISHERIES EXPERIMENT STATION, Castle Bank, Conway. Equipped by the Fisheries Department (Ministry of Agric. and Fisheries) for shellfish research, especially in connexion with sewage pollution and artificial breeding. Accommodation for outside workers is limited. Application should be made to the Director.

6. FISHERIES RESEARCH DEPT., UNIVERSITY COLLEGE, Hull. A Fisheries Research section is conducted under the directorship of Prof. A. C. Hardy, M.A., in the Dept. of Zoology and Oceanography, with a staff of six research biologists, one of whom is a Leverhulme Fellow in Fisheries Research. A scheme of research, which concerns the distribution of plankton in relation to that of fish, particularly the herring, is being carried out in co-ordination with the researches of the Ministry of Agriculture and Fisheries and the Fishery Board for Scotland. An Oceanographic Laboratory, a sub-section of the Dept., has been opened at Leith, with Mr. A. E. Lucas in charge, to carry out the investigations in more northern waters. The cost of maintenance is borne largely by the Development Commission with grants in aid from the Viscount Leverhulme Trustees, the Fishmongers' Company and the Hull Fishing Vessel Owners' Assn. Facilities are offered to post-graduate research workers. Applications to the Registrar.

7. FISHERIES RESEARCH STATION, Alresford, Hants. A small

laboratory on the river Itchen, maintained by the Fisheries Department (Ministry of Agric. and Fisheries) for work on freshwater ecology in relation to pollution. Accommodation for outside workers is very limited.

8. THE FRESHWATER BIOLOGICAL ASSOCIATION OF THE BRITISH EMPIRE. The Laboratory of the Association is in Wray Castle on the west shore of Windermere. There is a resident staff of a Director and 4 Assistant Naturalists. The Laboratory is equipped for general biological and hydro-biological work on the lakes, reservoirs, rivers and streams of the Lake District. There is a specially equipped launch for work on Windermere itself. Visiting research workers may make use of the facilities of the Laboratory and Library, and accommodation (both board and lodging) is provided in Wray Castle. A number of research tables at the Laboratory are provided free of cost to workers on the nomination of subscribing Univs. During each Easter vacation a course is conducted on the principles and practice of freshwater biology. Applicants should write to the Director, Wray Castle, Ambleside, Westmorland.

(Scotland)

9. FISHERY BOARD FOR SCOTLAND. The Marine Laboratory, Wood St., Torry, Aberdeen, and the Marine Aquarium, Bay of Nigg, Aberdeen, are Govt. fishery and marine biology establishments. Two vessels fitted with modern apparatus are in commission for the greater part of each year: (a) the steamship *Explorer* engaged in deep-sea work (incl. trawling) in Scottish and North Atlantic waters, and (b) the motor-boat *Kathleen* employed in surveying coastal areas. One or two outside research workers may be accommodated, but no special provision for such exists. The Board's Scientific Supt. is R. S. Clark, M.A., D.Sc., F.R.S.E.

10. SCOTTISH MARINE BIOLOGICAL ASSOCIATION, Millport, Scotland, admits students and research workers: table space rental, subscribers, 10s. 6d., non-subscribers, £1 : 10 : 6, per week, including loan of microscope and use of ordinary reagents, library and reference collections, boats and collecting appliances when available. Trade dept. for sale of specimens. For full particulars apply to the Director, Marine Station, Keppel Pier, Millport, Buteshire.

*Preservation of Fish*

11. TORRY RESEARCH STATION (Dept. of Scientific and Industrial Research), Aberdeen. (See V. 7 below.) Research is carried out on the transport and storage of fish and on fish by-products. *Officer in Charge*, G. Reay, M.A., B.Sc., Ph.D.

IV. TIDES AND METEOROLOGY.

LIVERPOOL OBSERVATORY AND TIDAL INSTITUTE. The work carried on is as follows: (1) The continuous prosecution of scientific research

into all aspects of knowledge of the tides and of kindred geophysical subjects; (2) the analysis of tidal observations and the preparation of tide-tables; (3) the taking of meteorological and seismological observations, together with the supplying of information on these subjects; (4) the maintenance and firing of the Time-gun; (5) the testing of chronometers and navigational instruments. Students in research or in the routine of tidal work may be admitted on appln. to the Director of the Institute (Prof. J. Proudman, M.A., D.Sc., F.R.S.), The University, Liverpool.

## V. INDUSTRIAL.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, 16 Old Queen St., London, S.W.1.

(i.) Research Stations, Nos. 1-8.

Persons wishing to avail themselves of the resources of any of these centres are advised to call on the Dept. in the first instance for suggestions and advice. Research workers from overseas are not accommodated in these stations unless sent by Dominion or Colonial Governments by arrangement with the Department. Visitors from the Dominions or Colonies making inquiries on subjects falling within the scope of the various stations will, however, be supplied with such information as is available for communication.

1. THE NATIONAL PHYSICAL LABORATORY, Teddington, Middlesex, was founded in the year 1901 as a public institution for standardizing and verifying instruments, testing materials, and for the determination of physical constants. The Laboratory comprises the following main depts.: Physics; Electricity; Radio; Metrology; Engineering; Metallurgy; Aerodynamics; William Froude Laboratory. *Director*, W. L. Bragg, O.B.E., M.A., Sc.D., F.R.S., F.Inst.P., N.L.

2. THE FUEL RESEARCH STATION, Blackwall Lane, Greenwich, London, S.E.10, carries out investigations on the nature, preparation, and utilization of fuel of all kinds. The equipment of the Station includes large-scale plant for the carbonization, gasification, hydrogenation, cleaning, and briquetting of coal, boiler installations, and internal combustion engines for testing liquid fuel, as well as laboratories for small-scale investigations. *Director*, F. S. Sinnatt, C.B., M.B.E., D.Sc.

3. THE GEOLOGICAL SURVEY OF GREAT BRITAIN AND MUSEUM OF PRACTICAL GEOLOGY, Exhibition Road, South Kensington, London, S.W.7, assists students and others doing research as follows: (a) Palæontology, Petrology, and Mineralogy; the collections of British fossils, rocks, and minerals are always available under the guidance of the officer in charge. If sufficient reason is shown specimens may be lent out. Microscopes and all necessary apparatus are provided in the Survey's laboratories. (b) Mapping and field work. In the library large-scale maps of all parts of Britain which have been geologically surveyed are open for reference, and often the officers who made the maps are at hand to explain points of difficulty. (c) The library is especially rich in foreign surveys and in British geological literature. The public are

admitted freely. See also A. IX. 2 below. *Director*, E. B. Bailey, M.C., M.A., D.Sc., F.R.S.

4. THE FOREST PRODUCTS RESEARCH LABORATORY, Princes Risborough, Aylesbury, Bucks, is concerned with the general study of forest products, especially timber, with a view to their more efficient conservation and economical use. *Director*, W. A. Robertson.

5. THE BUILDING RESEARCH STATION, Bucknall's Lane, Garston, nr. Watford, Herts, is concerned with general research into building materials and methods of construction. *Director*, R. E. Stradling, C.B., M.C., D.Sc., Ph.D., M.Inst.C.E.

6. THE CHEMICAL RESEARCH LABORATORY, Teddington, Middlesex, undertakes research on Corrosion of Metals, High Pressure Problems, Tars, Chemotherapy, Synthetic Resins, Water Pollution, Dental Materials, Microbiology. *Director*, Sir Gilbert T. Morgan, O.B.E., D.Sc., F.R.S., F.I.C.

7. THE FOOD INVESTIGATION STATIONS of the Department are concerned with research on the storage and transport of foodstuffs. The LOW TEMPERATURE RESEARCH STATION, Downing Street, Cambridge, is concerned mainly, but not exclusively, with fruit and meat; the DITTON LABORATORY, East Malling, Maidstone, Kent, with fruit; the TORRY RESEARCH STATION, Aberdeen, with fish. See above, *passim*. *Director of Food Investigation*, E. Barnard, D.S.O., 16 Old Queen St., London, S.W.1.

8. ROAD RESEARCH LABORATORY, Harmondsworth, West Drayton, Middlesex, is concerned with research into road materials and processes for road-making. *Director*, R. E. Stradling, C.B., M.C., D.Sc., Ph.D., M.Inst.C.E.

(ii.) Research Associations, Nos. 9-30.

Applications relating to these centres and to Nos. 31-36 should be made direct.

9. THE INSTITUTION OF AUTOMOBILE ENGINEERS, RESEARCH AND STANDARDIZATION COMMITTEE (Headquarters—12 Hobart Place, London, S.W.1. Research Laboratory—Great West Road, Brentford, Middlesex. Standardization Dept.—83 Pall Mall, London, S.W.1). The object of the Committee is to promote research in connexion with the British motor trade, to eliminate needless repetition and overlapping of expenses by pooling resources. Outstanding research has already been carried out on such subjects of general interest as cylinder wear and valve seat materials. The plant and the information collected by the late Research Assn. of British Motor and Allied Manufacturers has been placed at the disposal of the Committee. An important feature of the Committee's activities is the collection and classification of information of value to the industry and the monthly publication of abstracts from the English and Foreign Technical Press. The Research reports are, in general, confidential to Affiliated Manufacturers and Affiliated Operators of the Institution. The Society of Motor Manufacturers and Traders in conjunction with the Committee deals with the whole work of standardization for the Motor Industry. *Director*

of *Research and Standardization*, C. G. Williams, M.Sc. Inquiries to be addressed to the Secretary at the Headquarters of the Institution.

10. THE BRITISH BOOT, SHOE, AND ALLIED TRADES RESEARCH ASSOCIATION, 19 Bedford Square, London, W.C.1, conducts research into problems that arise in the manufacture in bulk quantities of footwear, in its distribution to the general public, and during its wear. The researches cover a wide field, embracing methods of measuring feet, statistical studies of the distribution of different types of feet, the design of lasts to suit different types of feet, the properties of shoe materials, the care of them and their economical use, and the chemical and other effects that may arise in the wear of shoes. A certain amount of work is carried out in collaboration with factories and technical colls. Students have from time to time been admitted to the Association's laboratories. The research reports are in general confidential to members of the Association and to certain Government Depts., but some are published, generally in the *Journal of the International Society of Leather Trades Chemists*. Membership of the Assocn. consists principally of boot and shoe manufacturers, but it also includes a number of manufacturers and suppliers of various shoe materials, such as textile fabrics, textile threads, shoe polishes, cleaners, dressings, and a few engineering firms who manufacture shoe machinery. *Director*, H. Bradley, B.Sc., D.I.C., A.R.C.Sc.

11. BRITISH CAST IRON RESEARCH ASSOCIATION, 21-23 St. Paul's Square, Birmingham, of manufacturers of pig iron, grey iron, and malleable castings of all kinds, for research in the constitution, methods of production, and after-treatment of these and auxiliary materials, such as refractories, sands, fuels, slags, fluxes, etc. Their Central Laboratory is in Birmingham and an auxiliary laboratory in Falkirk, but other research work is carried out at university and other research laboratories and at the National Physical Laboratory. Investigators interested in any phase of research work on cast iron may use the Association's Information Bureau, and the Director (J. G. Pearce, M.Sc., M.I.E.E.) is prepared to co-operate in planning investigations. Bulletin of abstracts and information on current metallurgical literature published six times a year.

12. THE BRITISH COLLIERY OWNERS RESEARCH ASSOCIATION, General Buildings, Aldwych, London, W.C.2. This is an Association whose members are representatives of the various district colliery owners' associations constituting the Mining Association of Great Britain.

Though the Association conducts directly a certain amount of research work into mining problems, generally speaking it finances approved items of research work to be conducted on its behalf. Its reports are, in general, confidential to members of the Association, but from time to time reports on specific items of work are published for general circulation.

13. THE BRITISH ASSOCIATION OF RESEARCH FOR THE COCOA, CHOCOLATE, SUGAR CONFECTIONERY, AND JAM TRADES, 22 Buckingham

Gate, London, S.W.1; Laboratories, 2 and 4 Dalmeny Avenue, Holloway, London, N.7, conducts research into problems connected with the manufacture of these products, though occasionally some portions of an investigation may be conducted in a factory. The research reports are issued to members and certain Govt. Depts. only, and, with a few exceptions, are confidential. Some reports, particularly those dealing with analytical investigations, are pubd. in scientific or trade journals. *Director*, T. Macara, F.I.C., F.C.S. Inquiries to be addressed to the Secretary

14. THE BRITISH COTTON INDUSTRY RESEARCH ASSOCIATION, Shirley Institute, Didsbury, Manchester, does not admit students to work in its laboratories. Its research results are communicated to its members, and the papers released for open publication are issued in the *Journal of the Textile Institute*, 16 St. Mary's Parsonage, Manchester. A special Silk Research Dept. has been established to take over the work formerly carried on by the British Silk Research Assn. *Director*, Sir Robert H. Pickard, D.Sc., Ph.D., F.R.S., F.I.C. Communications to be addressed to the Association.

15. THE BRITISH ELECTRICAL AND ALLIED INDUSTRIES RESEARCH ASSOCIATION, 15 Savoy Street, London, W.C.2, is supported by all sections of the electrical industry, manufacturers, suppliers and users, and its annual income approximates to £80,000. It arranges programmes of research applicable to all matters pertaining to the electrical and allied industries. Many of these are carried out at the Association's own laboratory or in the field, but others are carried out with the help of the National Physical Laboratory, manufacturers' laboratories, the Universities and Technical Colleges (sometimes under contract with members of staffs or students) and in Power stations. The Association aims at securing co-ordination of research work and realization of maximum benefits from it. In general it devotes its work to researches for the benefit of the industry at large, leaving to manufacturers research work which is primarily for their own benefit. Most of its reports are confidential to members but some are published, usually in the *Journal of the Institution of Electrical Engineers*. *Director and Secretary*—E. B. Wedmore, M.I.E.E., F.Inst.P.

16. THE RESEARCH ASSOCIATION OF BRITISH FLOUR MILLERS, 40 Trinity Square, London, E.C.3; Laboratory: Old London Road, St. Albans, Herts., conducts research into problems connected with the manufacture and use of wheat flour and other products of wheat. The researches are carried out mainly at the laboratories of the Association, under the supervision of the Director of Research. Practical industrial applications of the laboratory scale work are studied in the mills of constituent firms. Reports of scientific work are, in general, confidential to members of the Association, but some are released from time to time for publication in the scientific or technical press. A library of scientific and technical books and periodicals bearing directly on flour milling and baking problems has been developed, and is an "outlier" of the Central Library for Students. It is accessible to students and others



interested. Students as a rule are not admitted to work in the Association's laboratories. *Director*, E. A. Fisher, M.A., D.Sc., F.I.C., F.Inst.P.

17. THE BRITISH FOOD MANUFACTURERS' RESEARCH ASSOCIATION, 22 Buckingham Gate, London, S.W.1; Laboratories, 2 and 4 Dalmeny Avenue, Holloway, London, N.7. This Association was originally intended to include branches of the food industries not covered by the Association for the Cocoa, Chocolate, Sugar Confectionery, and Jam Trades, but the membership consists mainly of manufacturers of sausages, cooked meats, and other meat products, preserved fish, and also bacon and ham curers.

The researches into problems connected with these products are conducted in the Association's laboratories, and occasionally parts of the investigations may be carried out in factories. The reports are confidential, and are issued to members and certain Government services only. So far only reports of general interest to chemists have been published in scientific or trade journals. *Director*, T. Macara, F.I.C., F.C.S. Inquiries to be addressed to the Secretary.

18. BRITISH IRON AND STEEL FEDERATION (Industrial Research Council), Caxton House, Tothill St., London, S.W.1, was formed on Jan. 1, 1929, to work in conjunction with the Dept. of Scientific and Industrial Research. The Council directs a wide range of research activities concerned with iron and steel practice, various aspects being controlled by 31 committees, sub-committees, and panels of the Council. Problems of production are investigated by technical committees. Of these the Blast Furnace Committee is concerned with researches on coke, blast furnace practice, refractories and slags, while the fundamental aspects of blast furnace phenomena are being studied by sub-committees and panels controlling research activities both in the laboratory and in the field.

A similar policy has been adopted by the Open Hearth Committee, which examines problems of steel production, and by the Rolling Mill Committee, which is concerned with the production of finished steel.

A group of four committees working in co-operation with the Iron and Steel Institute is examining—largely from the scientific side—problems of steel quality, *e.g.* heterogeneity of ingots, corrosion, steel castings, and alloy steels.

Committees of the Council are also studying problems of sheet and tinplate production, use of steel sheets in building construction, and problems of smoke prevention.

Research work for the industry is done under the direction of these committees at the National Physical Laboratory, at the British universities, at works research laboratories, and in some cases at centres established for specific research purposes. Full co-operation is maintained with research workers of the industry and their investigations (financed by the individual firms and not from the funds of the Research Council) are placed freely at the disposal of the Council in the interests of the industry as a whole.

Effective co-operation exists between the Government and other

research associations in this and other countries engaged in research of a similar nature to that of the Council.

Inquiries to be addressed to the Secretary.

19. THE BRITISH LAUNDERERS' RESEARCH ASSOCIATION, 16 and 17 Lancaster Gate, London, W.2 ; Laboratory : Hill View Gardens, Hendon, N.W.4, was formed to promote research and other scientific work in connexion with the laundry and cleaning trades or industries. In addition to the Research and Analytical Laboratories, Engineering Dept., and Library, a full scale Experimental Laundry is provided. The work carried out includes the investigation and development of suitable washing, drying and finishing processes for the laundering of all types of washable fabrics, the examination of detergent materials and the study of the performance of laundry plant. Fundamental research on the properties of detergent solutions is at present in progress. Members are entitled to technical advice on any matters pertaining to the laundry industry. Courses of instruction are conducted at the laboratories, and lectures are given in various parts of the country. Publications : *The Technology of Washing* (1935) ; *The Chemistry of Laundry Materials* (1931). *Director*, F. Courtney Harwood, B.Sc., F.I.C., M.I.Chem.E.

20 THE BRITISH LEATHER MANUFACTURERS' RESEARCH ASSOCIATION, Offices, 8 St. Thomas St., Laboratories at 18-20 St. Thomas St., London, S.E.1, conducts research in regard to the manufacture (tanning, currying, and dressing) of leather and the raw materials of the Industry. The research reports are generally confidential to members of the Association and to certain Government services, but a number of papers are printed in scientific or trade journals or separately for more general circulation. *Director*, Miss D. Jordan-Lloyd, M.A., D.Sc., F.I.C.

21. THE LINEN INDUSTRY RESEARCH ASSOCIATION, Lambeg, Co. Antrim, N. Ireland, with Botanical Section at the Flax Research Institute, Flitcham Abbey, nr. King's Lynn, Norfolk. The work includes the investigation of problems arising in flax cultivation, fibre preparation, flax spinning, linen weaving, bleaching, dyeing, finishing and in the use of linen goods. There is scope for much original research in economic botany, agriculture, bio-chemistry, and physics, particularly the properties of colloids. The results of researches are frequently published in scientific journals. A scheme of training in Industrial Science for Research Students is in operation. This enables students to obtain a special B.Sc. degree and at the same time to acquire practical experience in industrial research. Senior Research Awards of the Ministry of Education of N. Ireland are tenable at the Research Institute. A scholarship of £240 spread over 3 yrs. tenable at the Research Institute, Lambeg, has been instituted by The Honourable The Irish Society. This is limited to students educated in certain schools in Co. Derry. A similar scholarship is offered by the Association open to all students. These enable the holders to secure a Univ. degree while doing research. *Director*, W. H. Gibson, O.B.E., D.Sc., F.I.C., F.Inst.P. Communications to be addressed to the Secretary.

22. THE BRITISH NON-FERROUS METALS RESEARCH ASSOCIATION,

Regnart Buildings, Euston St., London, N.W.1 (Telegrams—Metresch, Norwest, London), aims to cover the whole field of the non-ferrous metals and their alloys. Membership of the Association is open to individuals and companies in any part of His Majesty's Dominions who have industrial interests in non-ferrous metals whether as smelters, manufacturers, or users. The researches of the Association were carried out in approved academic and other institutions, or in works from 1920–1930, but a central Headquarters has now been established in London, where Research, Development, and Information Depts. operate together. The results are in the first instance reserved to members, although much is being published. So far as possible, the Association will be pleased to inform scientific workers from the Overseas Empire of the work it has undertaken or already published. *Director*, H. Moore, C.B.E., D.Sc., Ph.D., F.I.C., F.Inst.P.

23. THE RESEARCH ASSOCIATION OF BRITISH PAINT, COLOUR, AND VARNISH MANUFACTURERS, Tavistock House (South), Tavistock Square, London, W.C.1; Paint Research Station, Waldegrave Road, Teddington, Middlesex, founded 1926, conducts researches into problems relating to the treatment of the raw materials and the fabrication and application of the finished products of the industries suggested by the title as well as the allied industries of printing ink, linoleum, and artificial cloth manufacture. The researches are mainly of a fundamental nature and are wholly prosecuted in the laboratories at the Paint Research Station.

The research reports are, in general, confidential to members. Annual reports and bulletins are issued from time to time. The Association also issues bi-monthly a Review of Current Literature relating to the Paint, Colour, Varnish and Allied Industries, which embraces about 3000 abstracts per annum. This Review is now available to interested persons or Companies both in Gt. Britain and abroad, price £2 : 2s. p.a. *Director*, A. L. Jordan, D.Sc., A.R.C.S., F.I.C.

24. THE BRITISH POTTERY RESEARCH ASSOCIATION, offices at Federation House, Stoke-on-Trent (Telegrams—Technic, Stoke-on-Trent). Incorporated in 1937 to undertake research work into problems of the pottery industry and allied trades. The branches primarily concerned are: the Earthenware, Glazed Tile, China, Fine China, Sanitary Fireclay, Sanitary Earthenware, Electric Porcelain, Jet and Rockingham sections. In addition to investigating manufacturing problems the Association does a certain amount of fundamental work on the raw materials used in the industry. Bulletins containing the results of investigations are published periodically and circulated confidentially to members. The research work is at present being carried out in laboratories belonging to the North Staffordshire Technical College, but it is expected that a move to more commodious premises will soon be made. *Director of Research*, M. Francis, B.Sc., Ph.D., F.I.C.

25. THE PRINTING AND ALLIED TRADES RESEARCH ASSOCIATION (Registered 1930), Patra House, 10 Robin Hood Court, London, E.C.4, conducts research on technical problems in the printing, papermaking, inkmaking and allied trades. Works problems from members are also

investigated. The Association is supported by individual firms, employers' and employees' trade organizations and a grant from the Dept. of Scientific and Industrial Research. Research reports are issued confidentially to members, although some information on matters of general interest is published from time to time in Trade Press. Lectures on technical subjects are also arranged. *Director*, G. L. Riddell, Ph.D., A.I.C.

26. THE BRITISH REFRACTORIES RESEARCH ASSOCIATION, Drayton House, 30 Gordon St., London, W.C.1, conducts investigations designed to improve the manufacture, quality, and methods of using the heat-resisting materials of which high-temperature installations, including coke-ovens, gas-retorts, and blast and other metallurgical furnaces are constructed. Whilst having its own special field of work, many of its investigations prove of fundamental interest to the clay industries generally, fuel technologists, and metallurgists. Research headquarters—known as the Mellor Laboratories—are at Shelton, Stoke-on-Trent, and one branch of its work is carried out at Sheffield Univ. Bulletins containing the results of investigations are published periodically, and issued confidentially to members of the Research Assn. Occasional special Bulletins are released for general circulation, and Reports are published from time to time at the discretion of the Council in the appropriate technical journals. *Director*, A. T. Green, F.I.C., F.Inst.P.

27. THE RESEARCH ASSOCIATION OF BRITISH RUBBER MANUFACTURERS, 105/107 Lansdowne Road, Croydon, Surrey, has research and testing laboratories, together with a technical library and information bureau to deal with inquiries from its members, Government Departments, and scientific workers in the Dominions. Carries out research, chiefly of a confidential nature, through its own staff. Publications issued monthly to members and subscribers include a *Journal and Summary of Current Literature*, containing original papers and abstracts of technical and scientific publications relating to all branches of the rubber industry, a *Rubber Patent and Trade Mark Review*, and *Rubber Economic Intelligence*. *Director*, B. D. Porritt, M.Sc., F.I.C., F.Inst.P.

28. THE BRITISH SCIENTIFIC INSTRUMENT RESEARCH ASSOCIATION, 26 Russell Square, London, W.C.1 (Telegrams—Promores, Westcent, London), conducts research into problems pertinent to the manufacture and use of scientific instruments, including optical, surveying, nautical, and electrical instruments, and electro-medical and X-ray apparatus, and also into optical glass. It has headquarters laboratories at 26 Russell Square, and researches are prosecuted in universities, technical colleges, works laboratories, and works. Students are not admitted to work in the Association's laboratories. The research reports are, in general, confidential to members of the Association and to certain Government services, but some are published from time to time, either in scientific journals or separately for general circulation. The annual reports of the Association are distributed to certain public libraries, etc., at home and abroad, but otherwise are

available only to members. Among the institutions receiving them are : the Research Council Library, Parliament Buildings, Ottawa, Canada ; Council of Scientific and Industrial Research, 314 Albert St., East Melbourne, Australia ; Advisory Board of Industry and Science of the Union of S. Africa, New Law Courts, Johannesburg ; Survey of India, 15 Wood St., Calcutta ; National Research Council, 1201 Sixteenth St., Washington, D.C. ; the Library, Dept. of Agriculture, West Block, Ottawa, Canada. In London : the Australian Book Co., 16-20 Farringdon Avenue, E.C.4 ; Patent Office Library, 25 Southampton Buildings, W.C.2 ; The Science Museum, and the Imperial Institute, both at South Kensington, S.W.7. *Director of Research*, A. J. Philpot, O.B.E., M.A., B.Sc., F.Inst.P.

29. THE SCOTTISH SHALE OIL SCIENTIFIC AND INDUSTRIAL RESEARCH ASSOCIATION, 53 Bothwell St., Glasgow, C.2. The research work of the Association is now being carried on in the Central Laboratories of Scottish Oils, Ltd., in the shalefields. There are no special facilities for research students, those engaged on the work coming from the organizations of the companies engaged in the industry.

30. THE WOOL INDUSTRIES RESEARCH ASSOCIATION, "Torridon," Headingley, Leeds 6 (Telegrams—Woolira, Leeds). By arrangement with the Univ. of Leeds, post-graduates proceeding to higher degrees can carry out their research work at the Association's laboratories. The results of research carried out at the headquarters of the Association are published in the Journal of the Textile Institute, the Journal of the Society of Dyers and Colourists, Bio-Chemical Journal, Journal of Agricultural Science, etc. Other reports are retained in the first instance for private circulation to members of the Association, but may subsequently be released for general circulation. *Director of Research*, B. H. Wilsdon, M.A., B.Sc. Communications to be addressed to the Secretary.

#### Other centres of Industrial Research.

31. THE SAFETY IN MINES RESEARCH BOARD, Dean Stanley Street, Millbank, London, S.W.1. This Board is composed of scientific and mining members appointed by the Secretary for Mines to conduct and co-ordinate research into the causes of mining dangers and the means for preventing such dangers.

The work is financed chiefly by endowment and grants provided from the Miners' Welfare Fund, and is carried out mainly by the Board's own staff at its large-scale experimental station at Buxton, its laboratories at Sheffield, and at the Royal School of Mines in London. Grants for the maintenance of approved research are also made by the Board, e.g. to workers at Edinburgh University.

Researches are in progress into the prevention of coal-dust explosions, fire-damp explosions, and the spontaneous combustion of coal ; the safety and safe use of electricity, explosives, and safety lamps ; the prevention of accidents from falls of ground and haulage operations ; the improvement of wire ropes and mine rescue apparatus, and the ventilation of deep and hot mines. The falls-of-ground research includes, in addition to laboratory work on the design and strength of roof supports,

a comprehensive scheme of underground experimental work at collieries, carried out in co-operation with the branches of the Instn. of Mining Engineers, and the haulage research is being carried out on similar lines. Work is also in progress on the design and use of protective clothing for preventing injuries to head, hands, eyes and feet. The results of the researches are published in the Board's own technical papers and *Annual Reports* (which are on sale through H.M. Stationery Office) and in scientific journals.

The Board, in addition to its research activities, engages in safety propaganda among mine workers. Experimental demonstrations are given at the Buxton Research Station to miners, mine officials, and mining teachers from colliery districts, and a special series of illustrated booklets is published under the title, *What Every Mining Man should Know*. Propaganda is also carried out by means of films.

Arrangements are made for co-operation with the principal mining research organizations abroad.

32. MINING RESEARCH LABORATORY, Imperial College of Science and Technology, Royal School of Mines, South Kensington, S.W.7. (Director, J. Ivon Graham, M.A., M.Sc., F.I.C.) The work and the staff of the Laboratory previously at the University of Birmingham were transferred as from March 31, 1937, to the Imperial College. The expenses of the staff and some of the researches are covered by a grant from the Mining Assn. of Gt. Britain through the British Colliery Owners' Research Assn. The expenses of other investigations are covered by grants from the Safety in Mines Board (Miners' Welfare Fund). The Laboratory is solely engaged in researches on problems connected with mining, partly physical, partly chemical, and partly physiological. At present the main problems under investigation are the control of underground temperature, the physiological effects of heat, the control of spontaneous combustion underground, mine lighting, the reduction of dust in underground operations, and silicosis.

The results of the work are published in various technical journals but mainly in the Transactions of the Institution of Mining Engineers. Much of the work is done at mines throughout the country, but based on the Laboratory.

33. THE BRITISH MUSEUM LABORATORY, 39 Russell Square, London, W.C.1, is devoted to investigations on the best methods of preserving and restoring museum exhibits of any kind and of every age. Three reports published by H.M. Stationery Office, 1921, 1923, and 1926: Articles contributed to *Museums Journal* and *British Museum Quarterly*. See also *The Preservation of Antiquities* and *The Conservation of Prints, Drawings and Manuscripts*, by H. J. Plenderleith (both pubd. by the Oxford Univ. Press). Inquiries to be addressed to the Director (A. Scott, D.Sc., Sc.D., F.R.S.).

34. THE POST OFFICE RESEARCH STATION, Dollis Hill, London, N.W.2, deals with the development of any matters appertaining to the science of electrical communication and problems arising out of the day-to-day operation of the telephone, telegraph and postal services. Courses

of training in the specialized work of the Engineering Dept. are given in the schools attached to the Research Station.

35. LONDON, MIDLAND, AND SCOTTISH RAILWAY RESEARCH DEPARTMENT. Director of Scientific Research, Sir Harold Hartley, C B E., M.C., M A, F.R.S. Research Manager, T. M. Herbert, M.A. (Euston Station, N.W.1). The Research Laboratory at Derby comprises the following. A Metallurgical Section, dealing with investigations relating to the selection and behaviour of metals and their manipulation by casting, forging, heat treatment, and welding; an Engineering Section, dealing with research on designs and performance of engineering details of machines and structures, aerodynamical problems, etc.; a Textile Section; a Paint Section. Chemical Laboratories are maintained at Derby, Crewe, Horwich, Glasgow, and Stonebridge Park. There is also a Physics Section which deals with problems of ventilation, acoustics, refrigeration, etc.

36. NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY, Aldwych House, Aldwych, London, W.C.2. Principal—C. S. Myers, C.B.E., M.D., Sc.D., F.R.S. General Director—T. G. Rose, M.I.Mech.E., M.I.P.E., F.I.I.A. The Institute is a non-Government body founded in 1921, and controlled by a council of scientists, industrial employers, and Trade Union leaders. It exists to supply psychological and physiological knowledge of the human element in occupational life, its aim being to ensure that energy is applied in the most economical possible way, and not wasted through inefficient methods or unsuitable working conditions. Its scope includes fatigue- and movement-study, and study of the effect on efficiency of different incentive systems, working hours, rest pauses, lighting and ventilation systems, etc.; also study of large-scale organization questions, such as planning, progressing, lay-out, internal transport, and distribution. Investigations are carried out on behalf of industrial firms and research work is conducted in its laboratories.

On its vocational side the Institute also carries out research and applies mental and physical tests to determine the fitness of individuals for particular types of work. Tests are devised and standardized for the use of industrial firms in selecting employees, and in the laboratories of the Institute or in schools individuals are tested and advised on the choice of an occupation.

The Inst., in conjunction with the London School of Economics, gives lectures and practical courses suitable for the requirements of the Academic Diploma in Psychol. of London Univ. It also offers facilities for research in those subjects, and organizes Training Courses for school teachers in the principles and methods of vocational guidance. It organizes courses on the administration of the Binet-Simon tests of intelligence. *Occupational Psychology*, quarterly; *N.I.I.P. News*, monthly; *Ann. Reports*, free on appln. *Special Reports*.

## VI. PURE SCIENCE.

I BRITISH MUSEUM (NATURAL HISTORY), Cromwell Road, London, S.W.7. Director, T. C. Forster Cooper, M.A. Camb., F.R.S. Depart-

ments: Zoology, Entomology, Geology (Palæontology), Mineralogy, Botany. In addition to the specimens exhibited in the public galleries, much larger series are contained in the study-collections, which can be consulted or used for purposes of research by duly qualified workers. The function of the Museum is primarily to preserve representatives of the animals and plants (including fossils) of the entire world and of such inorganic natural productions as minerals, rocks, and meteorites. The systematic determination, description, and classification of this material constitute the principal research-work of the scientific staff (65 members) and other helpers (46). This forms the basis of further scientific research carried on either inside or outside the Museum, such as the study of variation, methods of organic evolution, geographical distribution of animals and plants, correlation of strata, chemical and physical properties of rocks and minerals, study of crystals. All these branches of science may in turn be applied to the solution of practical problems.

*Publications: Scientific Catalogues and Monographs, etc.; Guide-books, etc.*

2. DAVY FARADAY RESEARCH LABORATORY, The Royal Institution, 21 Albemarle Street, London, W.1. The research work of the Royal Institution is now mainly carried on in the Davy Faraday Laboratory, which is housed in a building adjoining the Institution, presented by the late Dr. Ludwig Mond. There is room for about 20 research workers. The laboratories are open to anyone who wishes to carry on researches in connexion with physics and chemistry provided the subject and the worker are approved by the Committee of Management and the accommodation permits. No fees are charged. At the present time, the main subject of investigation is that of the physical properties of organic substances in relation to their structure. *Director*, Sir William Bragg, O.M., K.B.E., M.A., D.Sc., Pres.R.S. Inquiries to be addressed to The General Secretary, Royal Institution.

3. CAMBRIDGE OBSERVATORY, Madingley Road, Cambridge. Every effort is made to give research students facilities for carrying out investigations. Applications should be made to the Director (Sir Arthur S. Eddington, M.A., D.Sc., F.R.S.).

4. THE SOLAR PHYSICS OBSERVATORY, Madingley Road, Cambridge. The laboratory contains spectroscopic, photometric, and other apparatus for experimental research and many photographic records of spectra. Facilities are offered to research students for carrying out special researches or for taking a share in the regular work of the Observatory. Applications should be made, in writing, in the first instance, to the Director (Prof. F. J. M. Stratton, D.S.O., O.B.E., T.D., M.A., D.L.).

5. LONDON UNIVERSITY OBSERVATORY, *see* p. 162.

6. THE SCOTT POLAR RESEARCH INSTITUTE, Lensfield Road, Cambridge. This Institute was founded in 1921 in memory of the late Captain Robert Falcon Scott, C.V.O., R.N. The purpose of the Institute is to provide information about, and facilities for research on, polar topics, and to give assistance towards the publication of the



results of expeditions. The collections of the Institute include a polar library, maps, photographs, and pictures, specimens of travelling equipment, and a collection of original records of past expeditions. Publication: *Polar Record* (Jan. and July). The Inst. is open to the public from 10 A.M.-1 P.M. and (except on Saturdays) from 2-4 P.M. Application should be made to the Director (Prof. F. Debenham, O.B.E., M.A.) for information as to the use of the research rooms

7. FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS, *see* p. 142.

8. JOHN INNES HORTICULTURAL INSTITUTION, Mostyn Road, Merton, London, S.W.19, is engaged in research on plant genetics, cytology and biochemistry. It affords exceptional opportunities for the study of fundamental problems in cytology. The study of the laws of inheritance in various horticultural plants, particularly fruit, receives special attention. Post-graduate short course every 2 yrs. Qualified persons desirous of conducting work coming within the scope of the Institution are given facilities. Biological and chemical labs., experimental gardens and greenhouses. *Director*, Sir Daniel Hall, K.C.B., M.A., LL.D., D.Sc., F.R.S.

9. OXFORD UNIVERSITY, BUREAU OF ANIMAL POPULATION (*Director*, Charles Elton, M.A.; address: University Museum, Oxford; headquarters, Department of Zoology and Comparative Anatomy). For research upon the ecology of wild animal populations, with special reference to mammals and game-birds. Clearing-house for literature and other information; also does field censuses, and laboratory studies on breeding, behaviour, food, pathology, etc. Staff: 4 full-time and 3 part-time research workers, and a secretary. Investigations in 1936-1937 included: Canadian snowshoe rabbit enquiry (10-year cycle in N. American wild life); Canadian Arctic wild life enquiry; vole fluctuations in Great Britain in relation to natural disease and to forest damage; Game Research (partridge, grouse, rabbit, hare); census methods on wild rodents

## VII. MEDICAL.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St., Westminster, S.W.1.

(i.) Centres 1-4 are under the direction of the Council.

1. THE NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, London, N.W.3 (*Director*: Sir H. H. Dale, C.B.E., M.D., F.R.S.). This is the central research institute of the Medical Research Council (*see* App. II. 15), and is primarily a place of work for members of the Council's permanent scientific staff. A few well-qualified attached workers can be received by special arrangement to follow approved lines of inquiry. There are no courses of instruction, but periods of research work at the Institute may be accepted for the purposes of higher degrees in the University of London. Research is done under the following heads: (a) bio-chemistry and pharmacology; (b) experimental patho-

logy, bacteriology, and protistology; (c) microscopy and physical methods; and (d) biological standards. Parts of the work are done at the associated FARM LABORATORIES at Mill Hill.

2. THE NATIONAL COLLECTION OF TYPE CULTURES (Curator: R. St. John-Brooks, M.D.), at present housed at the Lister Institute, London, S.W.1. Type cultures of pathogenic and other micro-organisms are maintained and researches into systematic and cultural problems undertaken.

3. THE STANDARDS LABORATORY, Oxford (Hon. Director, A. D. Gardner, D.M., F.R.C.S.). The laboratory is maintained for the production of standard diagnostic suspensions and sera for enteric, dysenteric, and some other infections, and for related research work. It is at present placed within the Dunn Institute of Pathology, University of Oxford.

4. THE DUNN NUTRITIONAL LABORATORY, Cambridge (in charge, L. J. Harris, D.Sc., Ph.D.). Maintained by the Council at the University Field Laboratories, Milton Road, for researches into problems of human nutrition, in association with the University departments for the various medical sciences.

(ii.) Centres 5-7 are maintained jointly by the Medical Research Council and the institutions within which they are placed.

5. DEPARTMENT OF CLINICAL RESEARCH, University College Hospital Medical School, London, W.C.1 (Director: Sir Thomas Lewis, C.B.E., M.D., D.Sc., F.R.S.). The dept. is engaged in clinical researches, especially into the cardio-vascular system in health and disease. Attached workers may be received by arrangement with the Director.

6. CLINICAL RESEARCH UNIT, Guy's Hospital Medical School, London, S.E.1 (Director: R. T. Grant, M.D., F.R.S.). Attached workers may be received by arrangement with the Director.

7. NEUROLOGICAL RESEARCH UNIT, National Hospital, Queen Square, London, W.C.1 (Director: E. A. Carmichael, M.B., Ch.B., F.R.C.P.). Attached workers may be received by arrangement with the Director.

#### Other centres of Medical Research.

8. ROYAL COLLEGE OF SURGEONS, RESEARCH LABORATORIES (Director: J. Beattie, M.D., D.Sc.), form two units, (a) the Bernhard Baron Laboratories, in the College buildings, Lincoln's Inn Fields, London, W.C.2, and (b) the Buckston Browne Research Farm, Downe, Kent. The laboratories are equipped for morphological, pathological, and experimental work. The researches of the workers are not confined to problems of direct surgical application. In addition to the regular staff and research scholars suitably qualified persons can be accommodated in either of the two units. Applications for laboratory facilities should be addressed to the Director at the College. For Museum, *see* XI. 1 below.

9. THE WELLCOME BUREAU OF SCIENTIFIC RESEARCH, 183 Euston

Road, London, N.W.1 (Telegrams—Welscience, Norwest, London), to which are affiliated the Wellcome Chemical Research Laboratories, the Wellcome Physiological Research Laboratories, Langley Court, Beckenham, the Wellcome Entomological Field Laboratories, Claremont, Esher, the Wellcome Historical Medical Museum and the Wellcome Museum of Medical Science (*see* XI. 4 below), was founded by Sir Henry S. Wellcome, for the purpose of research, especially in subjects connected with tropical medicine and hygiene. There are departments of bacteriology, pathology, chemotherapy, protozoology, helminthology, and entomology. Regular teaching is not undertaken, but a limited number of research workers who wish to follow some particular line of investigation may be given accommodation and facilities for carrying out their work. No charge is made for this, and all material is supplied, unless it is of a very special nature.

*Director-in-Chief*, C. M. Wenyon, C.M.G., C.B.E., B.Sc., M.B., B.S., F.R.S.

10. THE STRANGWAYS RESEARCH LABORATORY, Hills Road, Cambridge, is an independent institution mainly devoted to the study of tissue culture *in vitro* and to the application of that technique to biological problems. Work at present in progress includes the cinematography of living cells, investigations on the growth and differentiation of early embryonic tissue, and studies on the effect upon living cells of X-rays and radium.

The Laboratory provides facilities for a limited number of workers who wish to investigate some specific problem involving the tissue culture technique. Further information may be obtained from the Director (H. B. Fell, D.Sc., Ph.D.), Strangeways Research Laboratory, Hills Road, Cambridge. Letters should be marked "via Cherryhinton."

11. LISTER INSTITUTE OF PREVENTIVE MEDICINE. *See* p. 213.

12. THE NUFFIELD INSTITUTE FOR MEDICAL RESEARCH. *See* p. 275.

13. THE IMPERIAL CANCER RESEARCH FUND, under the direction of the R.C.P. London and the R.C.S. England, was constituted in 1902 to promote investigations into all matters bearing on the causes, prevention, and treatment of cancer and malignant disease. It possesses two Research Laboratories and a staff consisting of the Director (W. E. Gye, M.D.) and 7 scientific assistants. It publishes a general report annually and scientific reports from time to time. Total capital, £296,106. *Address*—8-11 Queen Square, London, W.C.1, and Stroud Laboratory, The Ridgeway, London, N.W.7.

#### CENTRES OF SCIENTIFIC INFORMATION

#### VIII. BOTANY AND AGRICULTURE.

##### *(England and Wales)*

1. ROYAL BOTANIC GARDENS. Information is supplied on botanical matters to all parts of the Empire. (*See also* I. 1 above.)

2. IMPERIAL INSTITUTE OF ENTOMOLOGY. Head Office at—British Museum (Natural History), Cromwell Road, London. S.W.7. Director : Sir Guy A. K. Marshall, C.M.G., D.Sc., F.R.S. An information and identification bureau to assist economic entomologists throughout the Empire. The Institute has now been recognized as the international centre for the accumulation and correlation of all information regarding the movements and breeding of locusts in Africa and Western Asia, and it issues periodical summaries of this information to all the Governments concerned. The Director of the Institute is also in charge of the field investigations being carried out under the authority of the Committee on Locust Control appointed by the Economic Advisory Council. The publications include the *Review of Applied Entomology*, Series "A" (Agricultural) and Series "B" (Medical and Veterinary); the *Bulletin of Entomological Research*; and the *Zoological Record*, part "Insecta." A large lending library is available at the Publication Office, 41 Queen's Gate, London, S.W.1 (Dr. S. A. Neave). Parasite Laboratory: Farnham House, Farnham Royal, Bucks (Dr. W. R. Thompson).

3. IMPERIAL MYCOLOGICAL INSTITUTE, Ferry Lane, Kew, Surrey. Director: S. F. Ashby, B.Sc. Mycologists from overseas are admitted to its laboratories to the extent to which space is available. A large lending library of pamphlets is maintained. *Review of Applied Mycology*, published by the Institute monthly, contains detailed abstracts in English of all work published in any part of the world.

The following Bureaux Nos. 4-9, and 13, 14 inclusive, were instituted in 1929 as the result of the Imperial Agricultural Research Conference held in London in 1927. They are maintained from a fund provided by contributions from the Governments of the Empire, and are controlled by an Executive Council appointed by those Govts. Address: 2 Queen Anne's Gate Buildings, London, S.W.1. The Bureaux do not undertake research; they assist research workers in the Empire by acting as clearing-houses of information and by arranging meetings.

4. IMPERIAL BUREAU OF SOIL SCIENCE, Rothamsted Experimental Station, Harpenden, Herts, a central clearing-house of information on soil problems throughout the Empire. (See I. (a) 4 above.)

5. IMPERIAL BUREAU OF PLANT GENETICS, Plant Breeding Institute, Cambridge University. This Bureau collects and disseminates information on crops other than herbage plants throughout the Empire. (See I. (a) 6 above.)

6. IMPERIAL BUREAU OF PASTURE AND FORAGE CROPS, Welsh Plant Breeding Station, Aberystwyth. This Bureau collects and disseminates information on herbage plants throughout the Empire. (See I. (a) 6 above.)

7. IMPERIAL BUREAU OF FRUIT PRODUCTION, East Malling Research Station, Kent. (See I. (b) 2 above.)

8. IMPERIAL BUREAU OF ANIMAL HEALTH, Veterinary Research Laboratory, Weybridge. (See I. (c) 4 above.)

9. IMPERIAL BUREAU OF AGRICULTURAL PARASITOLOGY, Institute of Agricultural Parasitology, Winches Farm, Hatfield Road, St. Albans, Herts. (See I. (c) 6 above.)

10. LONG ASHTON FRUIT RESEARCH STATION, Nr. Bristol. (See I. (b) 1 above.)

11. EXPERIMENTAL AND RESEARCH STATION, Cheshunt. (See I. (b) 4 above.)

12. INSTITUTE OF AGRICULTURAL ENGINEERING, Oxford. (See I. (g) above.)

*(Scotland)*

13. IMPERIAL BUREAU OF ANIMAL NUTRITION, Rowett Research Institute, Aberdeen. (See I. (d) 5 above.)

14. IMPERIAL BUREAU OF ANIMAL GENETICS, Institute of Animal Genetics, Edinburgh. (See I. (d) 7 above.)

IX. INDUSTRIAL.

*(England and Wales)*

1. IMPERIAL INSTITUTE, Imperial Institute Road, S. Kensington, London, S.W.7 (Director, Sir Harry A. F. Lindsay, K.C.I.E., C.B.E.). One of the objects of the Institute is to promote the utilization of the raw materials of the Empire, and the investigations carried out in its laboratories are primarily directed to this end. The work includes the examination of all kinds of plant and animal products and minerals. Valuable information relating to the composition, properties, etc., of raw materials of all kinds has been accumulated in the course of the work; and the Institute will be glad to assist overseas research workers dealing with such materials by supplying any available information regarding particular products in which they are interested. Arrangements can be made in special cases for workers from overseas to carry out investigations in the laboratories of the Institute.

Special departments of the Institute deal with inquiries relating to the sources, production, uses, and marketing of raw materials and with the collection and dissemination of general and statistical information concerning them. A Reference Library, containing a wide range of works of a scientific or technical character, is available for the use of visitors. The Public Exhibition Galleries contain comprehensive collections illustrating the natural resources, industries, scenery, and life of each country of the Empire overseas, and these are supplemented by lectures and daily film displays in the Institute's Cinema. The publications include the quarterly *Bulletin of the Imperial Institute*, an annual volume of *Mineral Statistics*, monographs on economic minerals and products of plant and animal origin, and other publications.

2. THE MUSEUM OF PRACTICAL GEOLOGY, Exhibition Road, South Kensington, London, S.W.7, to which is attached a valuable library of

standard works and geological maps, serves as the laboratory of the Geological Survey of Great Britain (*see* V. 3 above). In the library large-scale maps of all parts of Gt. Britain which have been geologically surveyed are open for reference, and the officers of the Survey are ready to explain points of difficulty. The library is also specially rich in foreign surveys. The Museum is open free on week-days (except Good Friday and Christmas Day), 10-6 P.M., and on Sundays, 2.30-6. The library is available for reference on week-days, 10-5.

3. THE SCIENCE MUSEUM, Exhibition Road, South Kensington, S.W.7 (Director, Colonel E. E. B. Mackintosh, D.S.O.), which is the National Museum of Science and Industry, was established in 1856, and its collections now occupy 200,000 sq. ft. of exhibition space. Its purpose is to illustrate science and the application of science to industry, at the same time to show the gradual development of the modern efficient types from earlier and more simple ones.

The Museum is open free on Mondays, Tuesdays and Wednesdays 10 A.M. to 6 P.M., Thursdays, Fridays, Saturdays and Bank Holidays (except Boxing Day) 10 A.M. to 8 P.M., Sundays 2.30 to 6 P.M. It is closed on Good Friday and Christmas Day.

Pure Science is represented by the Collections of instruments and apparatus used for study and research in the phenomena of various branches of physics, electricity, heat, light, acoustics, etc., as well as in astronomy, chemistry, geodesy, and the measurement of time.

The application of science to industry is illustrated by extensive collections of machinery and apparatus relating to Mech. Engineering, Railway Engineering, Road Transport, including Mech. Transport of all kinds; Aeronautics, Ship and Boat Construction, Marine Engines, Elect. Engineering, including all forms of Telegraphy, Telephony, and Radio-communication. Many groups of Industrial Engineering are also represented, as: Textile Machinery, Hand Tools and Machine Tools, Printing, Glass Technology, Agric. Implements and Machinery, as well as Mining, Metallurgy, and Ore Dressing. A special Children's gallery is also included.

The number of visitors during 1937 was 1,271,599.

The Science Library which forms part of the Museum contains 271,000 vols. relating to all depts. of science, pure and applied, except medical science, including 15,000 scientific periodicals. These may be issued on loan to scientific institutions and industrial organizations for the use of their members on requisition. The information service is based on a collection of 40,000,000 bibliographical references, from which lists of papers on specific subjects are supplied on request. The library is not open on Sundays.

4. HOME OFFICE INDUSTRIAL MUSEUM, 97 Horseferry Rd., Westminster, S.W.1. Director, D. R. Wilson, C.V.O., C.B.E. (H.M.C.I. of Factories). A permanent exhibition of methods, arrangements, and appliances for promoting safety, health, and welfare of industrial workers. Open free of charge every week-day 10-4. Persons under 18 not admitted except in parties for instructional purposes.

*(Scotland)*

5. THE ROYAL SCOTTISH MUSEUM, Edinburgh, 1. *Technological Department*. The collections illustrate the more important Scottish industries and the sciences upon which those industries are based. Mining, Oil Production, Metallurgy, and Mechanical, Electrical, and Civil Engineering, being of primary importance, have received preferential treatment, but other industries of a more specialized nature, such as Shipbuilding, Transport, Aeronautics, Papermaking, Printing, etc., are also illustrated. *Director*, T. Rowatt. (See also X. 8 below.)

X. PURE SCIENCE.*(England and Wales)*

1. ROYAL BOTANIC GARDENS, Kew. (See I. (a) 1 above.)

2. BRITISH MUSEUM (NATURAL HISTORY). The various departments of the Museum (see VI. 1 above) contain, besides the specimens in the public galleries, much larger series in the study-collections which are available for consultation or research by qualified workers. Attached to the Museum is an important library of scientific works intended primarily for the use of the staff, but also available to a limited extent to students with tickets for the study of the natural history collections.

3. MUSEUM OF PRACTICAL GEOLOGY. (See IX. 2 above.)

4. SCIENCE MUSEUM. (See IX. 3 above.)

5. NATIONAL MUSEUM OF WALES, Cardiff, South Wales. A centre of scientific information on the geology, botany, zoology, archæology, folk culture, and industry of Wales. The collections include the "David Davies" collection of fossil plants, the "Griffith J. Williams" collection of minerals, collections illustrating Welsh life, sixteenth-nineteenth centuries, Swansea and Nantgarw porcelain, and the De Winton collection of Continental porcelain. *Director*, Sir Cyril Fox, Ph.D., F.S.A.

6. BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Burlington House, Piccadilly, London, W.1. Research Committees of the Association conduct researches and prepare reports. Committees of the Sections consider, *inter alia*, the financing of proposed researches by such Research Committees. The Association administers for this purpose a fund, providing an income of about £350 annually, given by the late Sir James Caird of Dundee in 1912, and certain other special research funds; any surplus from subscriptions in excess of administrative expenses is also devoted to research. Total grants in aid of research normally exceed £850 p.a. The Association welcomes the attendance of University students at its annual meetings, and has a special class of "student membership" at reduced fees for duly qualified persons. Meeting, 1938, Cambridge; 1939, Dundee. *President*, 1938, Rt. Hon. Lord Rayleigh, F.R.S.

7. THE SCOTT POLAR RESEARCH INSTITUTE. (See VI. 6 above.)

*(Scotland)*

8. THE ROYAL SCOTTISH MUSEUM, Edinburgh, 1. *Art and Ethnographical Department.* The ethnographical collections include specimens illustrating the culture of backward races all over the world. The collections are in two sections, one arranged geographically, the other on the comparative system. A reference library, containing a large number of books and periodicals relating to ethnography, is available for the use of visitors.

*Natural History Department.* In addition to a wide range of exhibited specimens dealing with most branches of Natural History, the department has large scientific collections of great value. The most famous is the collection of fossil fishes, chiefly from Scotland. There is also a large collection of bird skins, both British and Foreign, and an extensive collection of insects. A reference library containing many books on natural history, as well as many current periodicals, is available for visitors.

*Geological Department.* The Geological collections include a valuable series of rocks, fossils and maps illustrating the status and progress of the geological survey of Scotland; also a fine general collection of minerals and the famous Heddle-Dudgeon collection of Scottish Minerals.

XI. MEDICAL.

1. THE MUSEUM OF THE ROYAL COLLEGE OF SURGEONS, Lincoln's Inn Fields, London, W.C.2, consists of the collection of John Hunter, which was handed over to the care of the College in 1799. The Collection has been added to considerably and now consists of extensive human osteological, anatomical, and pathological collections with comparative pathological and anatomical specimens. The Histological Collection was assembled mainly by Queckett (1853-61). Historical, odontological, and surgical instrument collections are housed in separate rooms. In 1921 the War Office collection of pathological and other specimens was entrusted to the College. The Museum is open to members of the medical profession and to other persons on application to the Conservator (J. Beattie, M.D., D.Sc.) or to the Secretary. Stamped and addressed envelope must be sent. For Research Laboratories, see VII. 8 above.

2. THE BUREAU OF HYGIENE AND TROPICAL DISEASES, Keppel Street, Gower Street, London, W.C.1, is under the general control and direction of an honorary Managing Committee appointed by and responsible to the Secretary of State for the Colonies. The Bureau's main function is to collect, from all sources, information regarding hygiene and tropical diseases; to collate, condense, and, where necessary, translate this information, and make it available by means of its two publications, viz. the *Tropical Diseases Bulletin* and *Bulletin of Hygiene*, issued monthly. The Bureau is housed with the London School of Hygiene and Tropical Medicine, and its valuable library is incorporated with that of the School. The joint library contains 26,000 vols., and is open to accredited post-graduate research workers.



The Bureau is officially recognized by the Colonial Office as an institution which receives and answers inquiries from the Colonial Empire on matters relating to hygiene and tropical medicine on which information is not locally available. Such inquiries should be addressed to the Director (H. Harold Scott, C.M.G., M.D., F.R.C.P., D.P.H., D.T.M. & H.).

3. THE MUSEUM OF THE LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE (incorporating the Ross Institute), Keppel St., Gower St., London, W.C.1, is divided into three sections, *i.e.* Tropical Medicine, General Hygiene, and Sanitary Engineering.

The Tropical Medicine Museum deals generally with tropical diseases and with the subjects of bacteriology, entomology, helminthology, and protozoology in their relation to tropical medicine.

The General Hygiene Museum has exhibits relating to foodstuffs, especially milk, and gives a graphic display of the ordinary communicable diseases, including methods for their control. There are also sections dealing with maternity and child welfare, personal hygiene, port health administration, and other branches of hygienic activity.

The Sanitary Engineering Museum embodies an exhibition of water supply, conservancy, town-planning, building construction, sanitary appliances, as well as the more primitive methods of sanitation in the tropics.

4. THE WELLCOME MUSEUM OF MEDICAL SCIENCE, 183 Euston Road, London, N.W.1 (open Monday to Friday 10 A.M. to 5.30 P.M., Saturday 10 A.M. to 12.30 P.M.), presents a new system of visual teaching. The purpose and plan of the Museum is to give a general survey of human disease from every aspect. The causation, pathology, symptomatology, treatment, and prevention of disease are demonstrated by means of pathological specimens, models, paintings, photographs, etc., in such a way that they convey a graphic picture of the more important features. Associated with each disease a short summary is set forth of the important points; there is also a file containing abstracts with regard to all the more recent work.

The microscopic side of morbid anatomy is dealt with by means of colour photo-micrography, many of the photographs being shown in special illuminated cases. Thus an attempt has been made to provide a continuous demonstration of disease which will fix itself on the attention and memory of those who visit the Museum.

The Museum of Medical Science is open free of charge to all medical men, Health Officers, and students, also to laymen interested in medicine, provided they are introduced by a registered medical practitioner. Teachers of medicine are invited to give demonstrations to their classes in the Museum and special attention is called to its value as a centre for post-graduate study. *Director*, S. H. Daukes, O.B.E., B.A., M.D., D.P.H.

5. THE NATIONAL COLLECTION OF TYPE CULTURES (v. p. 911).

6. THE PARKES MUSEUM of the Royal Sanitary Institute, 90 Buckingham Palace Rd., London, S.W.1, contains various sanitary

appliances and exhibits relating to health and hygiene. Open free daily, 10-5, Sat. 10-1.

## B. IN THE DOMINIONS, COLONIES, AND DEPENDENCIES

### CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

#### 1. CANADA

##### AGRICULTURE.

NATIONAL RESEARCH COUNCIL, *see infra under* Scientific and Industrial.

DOMINION EXPERIMENTAL FARMS SYSTEM. The main activities of this large branch of the Federal Government service are experimental and research work in almost all fields of agricultural production. The Central Experimental Farm at Ottawa is the administrative headquarters, where a large volume of work in many fields is conducted. Further information from the Director (E. S. Archibald, B.A., B.S.A., LL.D., D.Sc.).

There are 29 branch Stations, many of these devoting their sole attention to special regional problems, such as researches in fruit production, ranch improvement, silver fox breeding, horse breeding, tobacco production, and the like, while the balance cover a wider field of investigational problems in two or more agricultural activities. The many specialized Sub-stations deal with urgent regional problems, such as soil drifting, physiological diseases of fruit trees, soil burn outs, cattle hybridization and red water in domestic cattle, and throughout Northern Canada discover the crop-producing possibilities before settlement takes place.

There are, also, 40 district experiment sub-stations and 15 reclamation and regrassing stations engaged in investigations in connexion with the drought problem in the Prairie Provinces.

10 specialized Laboratories, 3 of which are located at and co-operate closely with Univs., deal with the major plant disease problems in intensive research towards the creation of control measures.

Experimental research is divided into 12 divisions: (i.) Animal Husbandry; (ii.) Bacteriological investigations; (iii.) Botany investigations include researches in diseases of trees and crops and studies of economic medicinal and poisonous plants; (iv.) Cereal investigations and the testing of new varieties as to their suitability throughout Canada; (v.) Horticultural investigations, including researches as to soils, fertilizers, and production, and protective measures and the creating and testing of fruits and vegetables in different parts of Canada; and with associate workers a study of physiological disturbances in production, storage, and marketing; (vi.) Forage Crops investigations—a specialized research Station has been established at the Univ. of Saskatchewan to meet the needs of the Prairies in special problems of Elite Stock Seed production, the creation of superior kinds, varieties, and strains, etc.; (vii.) Poultry investigations; (viii.) Tobacco experimental

work; (ix.) Investigations in fibre plants; (x.) Field Husbandry researches—on many Eastern Stations special attention is devoted to the improvement of pastures, while Western range improvement is also directed by this Division; (xi.) The Divn. of Chemistry co-operates with all the above Divisions, individually, or on specialized committees.

Officials from these various Divisions and Branch Stations and Laboratories are associated with the National Research Council through its joint and associate committees and different Federal and Provincial Committees towards the solution of specific problems and for the general advancement of agriculture.

(xii.) Extensive investigations on the problem of black stem wheat rust and other Field Crop diseases are conducted in co-operation with the National Research Council, while investigations in foot rots and root rots of cereals and diseases of fruits are carried on in co-operation with the Univs. in the Prairie Provinces and with the Univ. of Toronto.

### FISHERIES.

NATIONAL RESEARCH COUNCIL, *see infra* under Scientific and Industrial.

FISHERIES RESEARCH BOARD OF CANADA, Ottawa. Fisheries Research conducted under federal authority in Canada is carried on through the Fisheries Research Board of Canada, which is an independent body but under the control of the Minister of Fisheries and is, in effect, the scientific branch of the Department of Fisheries. Four main research centres or stations, and several substations, are operated by the Board, which consists of 2 officers of the Dept. of Fisheries, 4 representatives of the fishing industry, and 9 scientists selected from the staffs of Canadian Universities. The present chairman is Dr. A. T. Cameron (Univ. of Manitoba), and the hon. sec.-treasurer is Mr. J. J. Cowie (Dept. of Fisheries, Ottawa).

Duly qualified research workers may carry on voluntary investigations into approved problems at these centres from time to time. Two of the stations—one on the Atlantic coast at St. Andrews, New Brunswick (Director, Dr. A. H. Leim), and the other on the Pacific coast at Nanaimo, British Columbia (Director, Dr. W. A. Clemens)—are Fisheries Biological Stations concerned with problems related to the culture, conservation, and capture of fish. The other two stations, Fisheries Experimental Stations, carry on investigations and experiments in connexion with the handling, preservation, and marketing of fish. One is situated at Halifax, Nova Scotia (Director, Dr. D. B. Finn), and the second at Prince Rupert, B.C. (Director, Dr. N. M. Carter). Under an arrangement made with the Board by the authorities, students of Dalhousie Univ. proceeding to the degree of B.Sc. in Fisheries take part of their course at the Halifax station. Schools of instruction for fishermen and fishery officers have been conducted by the Board at the Halifax station for some years. A sub-station of the Board at Cultus Lake, B.C., is concerned with studies on the life history of the sockeye salmon (*Oncorhynchus nerka*), with a view to determining

the efficiency of artificial as compared with natural propagation. A second sub-station, at Ellerslie, Prince Edward Island, deals with the life history of the Atlantic coast oyster (*Ostrea virginica*), and with commercial oyster culture or "oyster farming." Another Fisheries Experimental Station was established in 1936 at Grand Riviere on the Gaspé Peninsula (Director, Dr. A. Labrie).

Major work recently being carried on by the Board has included study of the effects of refrigeration on fish muscle, improvement of methods of smoking fish, investigation of methods for improving the preparation of fish meals and the purification of fish oils by hydrogenation, study of the vitamin content of the body oils and liver oils of various fish, investigation of industrial uses of fish oil, experiments with both sockeye salmon and pink salmon (*Oncorhynchus gorbuscha*) to test the parent-stream theory and the possibility of improving the runs of "off" years, oceanographic studies on both coasts to ascertain the source and distribution of the silica and phosphate contents of the waters as influencing the growth and distribution of plankton, a survey of the fisheries of the Bay of Fundy, and a similar survey in the south shore of Nova Scotia area. Important work in connexion with oyster history and culture has also been done, and, in co-operation with the Government of British Columbia, the Board is carrying on an intensive study of the Pacific coast pilchard and herring fisheries.

Publications issued by the Board are its *Annual Report*, *Journal of the Fisheries Research Board of Canada*, *Progress Reports*, quarterly, and *Bulletins*. An extended summary of the Board's work from year to year is also printed in the Annual Report of the Dept. of Fisheries.

#### SCIENTIFIC AND INDUSTRIAL.

NATIONAL RESEARCH COUNCIL, Ottawa. This organization was established by the Government of Canada in 1916 to promote the utilization of the natural resources of Canada, to undertake researches with the object of improving the technical processes of industry, to determine standards and methods of measurement, and to standardize materials used by the government and in industry. The Council consists of 15 members, selected for terms of 3 years, from among men prominent in scientific work in Canadian Universities, or in Canadian industry. It meets four times annually. There is a President (Major-General A. G. L. McNaughton), who is appointed for a term of years. He is the chief executive officer and reports directly to the Committee of the Privy Council on Scientific and Industrial Research.

The Government has provided the Council with extensive laboratory facilities at Ottawa, in which the Council now has a scientific and technical staff of about 170 persons. The internal work of the Council is organized in five technical divisions, Biology and Agriculture, Chemistry, Mechanical Engineering, Physics and Electrical Engineering, and Research Information. The biological and agricultural work of the Council has been organized in close co-operation with the Dominion Department of Agriculture. Six joint committees are now active in special fields of agricultural research, with the co-operation of the agricultural

colleges and universities. The Division of Chemistry is engaged in research on asbestos, carbon black, and other products from natural gas, casein, corrosion, distillation apparatus, plant hormones, starch, laundry, dry cleaning, leather, magnesium products, paints, rubber, textiles, etc. The Division of Mechanical Engineering is devoted particularly to aeronautical investigations, in a large wind tunnel, to hydraulics research using a model-testing basin, to engine testing and to fire hazard studies. An aeronautical museum is being established. The Division of Physics and Electrical Engineering undertakes investigations in the general field indicated by that title, including heat, light, sound and electrical studies and also considerable work in metrology. The Division of Research Information is responsible for a general information service, the National Research Library, publications, standardization, and for the general planning of co-operative investigations through committees.

The Council has an extensive system of research and advisory committees, to many of which grants are made for research in university laboratories and elsewhere. The scope of the work undertaken by these committees is indicated by the titles,—aeronautics, asbestos, chemical standards, coal classification, electrical units, engineering standards, field crop diseases, fire hazard testing, forestry, hydraulics, gas, grain, laundry research, leather, magnesium products, market poultry, oceanography, parasitology, potato research, radio, radiology, storage and transportation of food, survey research, smelter smoke, tuberculosis, weeds, and wool.

The Council has since its inception maintained a system of scholarships for post-graduate work in Canadian and foreign universities. A total of 685 such awards has been made to outstanding graduates of Canadian universities.

THE ONTARIO RESEARCH FOUNDATION, 47 Queen's Park, Toronto (*Director*, Dr. H. B. Speakman), was established in 1928 at the instigation of the Prime Minister of the Province. An endowment fund was created from subscriptions made over a period of 5 yrs. from manufacturers, corporations, and private individuals, and from contributions from the Provincial Government on a £ for £ basis. Quarters in Queen's Park were set aside by the Govt. for offices and laboratories.

Researches have been carried out for the benefit of industry and agriculture and to develop the natural resources of the Province. Soil surveys of sections of the Province have been continued, and a study was made of the disease which had attacked the oat crop in certain areas. It was observed that the infected grain was confined to one type of soil which was heavily infested with nematodes. As no economical and effective method for destroying this pest was found it was recommended that farmers rotate their crops in such a way as to limit as much as possible the sowing of oats in the infected areas.

The work on bovine contagious abortion which had been in progress for five years came to an end. The experimental area, comprising farms whose owners agreed to eradicate this disease from their herds, is still under the care of the area veterinarian but no longer under the direct supervision of the Foundation. In view of the satisfactory conclusions

arrived at with regard to this experiment it was felt no further progress could be made in that particular direction, and our attention is being focussed on the bacteriological side of the disease, and on mastitis and other animal diseases.

In the metallurgical field studies have been continued on the properties of white cast iron, the forgeability of metals, and on bearing metals. As a result of these investigations changes have been made in the manufacture of certain articles which are of importance to the industries concerned.

The fellowships supported by industrial concerns have been continued and researches of particular interest to these companies have been carried on. The variety of problems investigated on behalf of manufacturers will be indicated by enumerating a few of them: leather dust, badminton shuttlecocks, sponges, hot-water bottles, vanillin, foil labels, printing inks, concealed radiators, tarnishing of gilt paper, vitamin assays. The solution of these problems represented a real contribution to industrial progress in the Province.

Numerous papers have been published in scientific and trade journals and a report covering the work of the Foundation is issued annually.

THE FOREST PRODUCTS LABORATORIES of Canada are maintained by the Dominion Forest Service of the Dept. of the Interior. The Labs. were started on a small scale in 1913 in Montreal, but have now expanded to 3 well-equipped units: (i.) the *Main Laboratories* at Ottawa, (ii.) the *Pulp and Paper Division* at Montreal, working in close co-operation with the Pulp and Paper Assn. of Canada, (iii.) *Branch Laboratory* at Vancouver. The total staff, scientific, executive, and clerical, numbers about 70, over 30 of whom are univ. graduates in science. The Laboratories operate under the following divisions: (a) Pulp and Paper, (b) Wood Preservation, (c) Timber Mechanics, (d) Lumber Seasoning, (e) Timber Physics, (f) Wood Utilization, (g) Timber Pathology, (h) Markets and Exhibits, (i) Wood Chemistry.

Pulp and paper is now Canada's most important manufactured product, and there is a growing appreciation of the importance of scientific processes in their manufacture. The wood-using industries as a group are among Canada's largest industries, being only exceeded by agriculture and very slightly by mining.

The Laboratories are being increasingly used as a bureau of technical information by the wood-using industries. The data from its own researches or from sources of reference in its library on wood utilization are available. Its technical inquiries number about 3000 each year. Lists of publications are sent on application, some without charge.

Some of the more important problems studied in 1937 included:

(i.) *Main Laboratories, Ottawa.*

*Timber Mechanics Division.* Strength of glued joints; Logging sleighs; Standard grades for Canadian structural timbers; Strength of Eastern Canadian structural timbers; Strength of dowelled joints; Veneers and plywood; Butter box design; Determination of effect of slant driving on holding power of nails; Efficiency of cement coatings

for nails ; Effect of rate of loading on the strength of timber ; Efficiency and strength of timber connectors.

*Wood Preservation Division.* Fire retardant treatments ; Service life of treated and untreated timber ; Creosote treatment of spruce ; Experimental treatment of poles at Chalk River Forest Experiment Station ; Service tests of treated and untreated fence posts and untreated saplings at Chalk River Forest Experiment Station ; Preservative value of sodium fluoride and dinitrophenol when applied to the surface of timber as a thin paste ; Mine timbers.

*Timber Physics Division.* Variability in wood ; Variability of wood with special reference to devising simple methods of selecting timber of high mechanical properties , Measurement of cell dimensions of wood.

*Timber Pathology Division.* Reference collection of pathological material ; Red stain in jack pine : its development in creosoted and untreated railway ties under service conditions ; Blue stain in soft-woods ; Decay of pulpwood in storage.

*Lumber Seasoning Division.* Kiln drying ; Equilibrium moisture content of representative Canadian woods ; Air-seasoning studies , The seasoning of timber by the application of salts

*Wood Utilization Division.* The use of wood for fuel , Use of yellow birch and hard maple for spokes and felloes of artillery wheels ; Wood taint in butter boxes ; Special investigation on wooden tanks

*Wood Chemistry Division* Hardwood distillation , The use of wood tanks for storage of chemicals ; The use of wood for plastics.

(ii.) Pulp and Paper Division, Montreal, P.Q.

Projects Methods of analysis ; Classification of pulp by selective screening ; Laboratory methods for beating pulps ; Optical properties of paper ; Consistency measurements of pulp suspensions ; Permanence of paper ; Drainage properties of pulp Groundwood studies , Rate of grinding and groundwood quality. Sulphite pulping studies ; Comparison of Canadian and foreign sulphite pulps. Printability of paper. Adsorption of vapour by wood and pulps ; Adsorption of electrolytes by wood and pulps ; Heat of wetting by liquids of wood and pulps ; Dielectric constants of wood and pulps ; Equilibria existing in sulphite liquors ; Density of wood and pulps ; Thermal conductivity of pulp and paper ; Specific heats of wood and pulp.

(iii ) Vancouver Laboratory, Vancouver, B.C.

*Timber Products.* Air seasoning of lumber ; Kiln drying of lumber ; Kiln drying of shingles ; Sawmill waste and its utilization , Utilization of British Columbia hardwoods ; Use of wood and charcoal as a motor fuel ; Effect of colouration on properties of western red cedar and Douglas fir ; Development of stain and decay in lumber during shipment

by water ; Effect of kiln drying upon sterilization of lumber ; Relative durability of British Columbia woods.

*Timber Mechanics.* Effect of rate of growth upon specific gravity and strength of Sitka spruce ; Effect of shape of the test specimen upon its strength in compression parallel to the grain ; Tests of wax-coated and hot galvanized shingle nails ; Holding power of drift bolts in British Columbia species ; An investigation of one and two-piece box ends ; An investigation of a two-ply wood spring for minimizing damage to apples when packed in standard boxes.

Outside research workers are admitted to the Laboratories. Inquiries should be addressed to the Superintendent, Forest Products Laboratories, Ottawa.

THE MINES AND GEOLOGY BRANCH, DEPARTMENT OF MINES AND RESOURCES, Ottawa, carries on the work of the former Department of Mines. Through its Bureau of Mines, Bureau of Geology and Topography, the branch undertakes scientific technical and other investigations designed to further the development of the mining and metallurgical industries in Canada and publishes reports thereon. It also administers the National Museum of Canada, a national history museum which carries on anthropological, zoological, and botanical investigations.

The Bureau of Mines was formerly the Mines Branch which was created by the Mines and Geology Act, 1907. It carries out field and laboratory investigations of the mineral resources of the Dominion (metallic, non-metallic and fuels), their production, processing, utilization, and marketing. In connexion with this work the following laboratories are maintained :

(i.) *The Ore Dressing and Metallurgical Laboratories*, established in 1910, are equipped for research and investigational work on metallic ores, metals and alloys. The ore dressing laboratories are fully equipped for small scale and for continuous pilot plant tests, and have all types of standard ore dressing machinery. A bulk sampling plant with a capacity up to two tons per hour is operated. There is also a mineralogical laboratory completely equipped for microscopic, microphotographic and spectrographic examinations and research.

Continuous runs can be made in connexion with cyanidation of gold and silver ores and other hydrometallurgical and electrochemical operations in the hydrometallurgical laboratories. Research chemical laboratory facilities are provided with equipment for research work on chemical and hydrometallurgical problems.

Physical metallurgical laboratories are equipped for large and small scale electric furnace work, and include two arc type, one combination arc and resistance type, and two high-frequency induction type furnaces. There is also a heat treating laboratory of commercial proportions. For sintering, roasting and similar investigations, a Dwight-Lloyd sintering machine, a Herreshoff furnace, rotary kiln and muffle type roasting furnace are provided.

Fully equipped mechanical testing and metallographic laboratories are provided.

(ii.) *The Industrial Minerals Laboratories* are equipped for research



and investigational work on problems of production and utilization of industrial minerals and in its Industrial Minerals Milling Laboratory carries on investigations connected with crushing, grinding and purification of industrial minerals.

The Ceramics Laboratories test clays, shales and other ceramic raw materials and endeavours to improve technology of the clayworking industries.

The Road Materials Laboratories test rocks and gravels for road construction and maintenance and study utilization of materials in road building.

The Milling and Ceramics Laboratories carry on trial operations on full plant scale, as well as small scale and semi-commercial work.

(iii.) *The Fuel Research Laboratories*, established in 1910, are equipped for research and investigational work on the chemical and physical properties of fuels and their utilization. The investigations into solid fuels include, as do those of the British Fuel Research Station at Greenwich (see A. V. 2 *supra*), a chemical and physical survey of coal seams *in situ*.

In addition to chemical laboratories and large scale research apparatus, a commercial by-product recovery coke plant, experimental domestic heating plant, commercial-scale pulverized fuel steam-generating plant, large scale coal washing plant, and continuous scale high pressure hydrogenation installation are maintained.

The work is organized in the following sections: (1) Combustion engineering; (2) Coal carbonization, preparation and briquetting; (3) Oil shale and bitumen; (4) High pressure hydrogenation; (5) Oils, natural gas and mine air analyses; (6) Solid fuels analyses.

*The Geological Survey, Ottawa*, carries on research work in the field and laboratory in connexion with investigations of the general and economic geology of Canada, and publishes maps, and reports on the geology and mineral resources of Canada.

*The National Museum of Canada* is a natural history museum, which carries on scientific investigations in anthropology, zoology, and botany and publishes bulletins on the results. It has excellent collections of ethnological and archæological material from the Canadian Arctic, and a fair collection of anthropological material from other parts of Canada. There is also a good collection of phonograph records of Indian and French Canadian folk songs. The National Herbarium is maintained by the National Museum, which also has large collections of mammal and ornithological material for study and for loan to responsible scientific institutions. Scientists engaged in special lines of investigation are welcomed. To them a library of 70,000 vols. is open.

Inquiries regarding any of the above may be addressed to The Director, Mines and Geology Branch, Department of Mines and Resources, Ottawa.

#### MEDICAL.

THE BANTING INSTITUTE FOR MEDICAL RESEARCH, University of

Toronto, was opened in Sept. 1930. It is occupied by the following medical depts.—Path., Bact., Neuro-pathol., Med., Surg., Pathological Chem. These depts. carry on teaching, routine laboratory work in connexion with clinical investigation and research work. The Banting and Best Dept. of Medical Research occupies one floor of the Institute, and is devoted entirely to research work.

THE CONNAUGHT LABORATORIES, University of Toronto, associated with the School of Hygiene, were established to provide facilities in the field of preventive medicine and for the production and distribution of biological products. Distribution has been extended throughout Canada and to numerous British and foreign countries. Farm of over 70 acres. Library. Opportunities for research are offered to suitably qualified students.

## 2. AUSTRALIA

AUSTRALIAN AND NEW ZEALAND ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. Headquarters: Science House, Gloucester St., Sydney. Founded in 1887 "to give a stronger impulse and a more systematic direction to scientific inquiry, to promote the intercourse of those who cultivate science in different parts of the Commonwealth of Australia, the Dominion of New Zealand, and in other countries, to obtain more general attention to the objects of science, and a removal of any disadvantages of a public kind which may impede its progress." The Association aims at co-operation between the workers in the various branches of science on the one hand, and between the professional scientist and the general public on the other. Meetings are held within the various States and in New Zealand (usually biennially). Last meeting, Auckland, Jan. 1937. Library, 4000 vols., housed by the Council for Scientific and Industrial Research. Publishes Report.

THE NATIONAL RESEARCH COUNCIL was founded in 1921 to represent Australia in the International Council of Scientific Unions (formerly Internat. Research Council), and also serves as a national academy of pure and applied science (all branches). Address: The Hon. Secretary, National Research Council of Australia, Kelvin House, 15 Castlereagh Street, Sydney.

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, 314 Albert St., Melbourne (Chief Executive Officer, Sir David Rivett, K.C.M.G., M.A., D.Sc.). Established by the Science and Industry Research Act, 1926, and has taken the place of the former Institute of Science and Industry, which was constituted in 1920, and had succeeded a temporary Advisory Council of Science and Industry created in 1916. The Council consists of 3 nominees of the Commonwealth Government, the Chairman of each State Committee constituted by the Act, and other persons co-opted for their scientific knowledge. Its main functions are: (a) to carry out scientific researches in connexion with the primary and secondary industries of Australia; (b) to train research workers; (c) to make grants in aid of pure scientific research; (d) to carry out the

testing and standardization of scientific instruments and apparatus; (e) the establishment of a Bureau of Information for the collection and dissemination of information relating to scientific and technical matters; and (f) to act as a means of liaison between the Commonwealth and other countries in matters of scientific research. The Council is now concentrating its efforts mainly on 7 major branches, viz.: (a) soil problems, (b) plant problems, (c) animal problems, (d) fisheries problems, (e) forest products, (f) entomological problems, and (g) preservation of foodstuffs, especially cold storage. Divisions of Animal Health and Nutrition, Plant Industry, Soils, Economic Entomology, and Forest Products have been organized. A Section of Food Preservation and Transport and a Section of Fisheries have also been established.

Publications: *Journal* (quarterly); a series of *Bulletins* and *Pamphlets*, 110 of the former and 73 of the latter already published.

The Council maintains or assists the following *Research Stations*.

For *Citriculture*. A Research Station established at Griffith, Murrumbidgee Irrigation area, N.S.W., in 1924, has an area of 57 acres, and is now owned and financed jointly by the Council and the Water Conservation and Irrigation Commission, N.S.W.

For *Viticulture*. The Council maintains a Research Station at Merbein, near Mildura, formerly under the control of the Mildura Vineyards Protection Board.

For *Economic Entomology and Plant Industry*. Laboratories at Canberra for Economic Entomology and Plant Industry have been erected and equipped. They are designed to allow of their incorporation in future with a central administrative block.

For *Animal Health*. The F. D. McMaster Animal Health Laboratory, established in the grounds of Sydney Univ. from a gift of £20,000 by Sir Frederick McMaster, a pastoralist of "Dalkeith," N.S.W., investigates problems relating mainly to the health of sheep. There is a field station at St. Mary's, about 30 miles from Sydney.

A sheep experimental station—the National Field Station, "Giruth Plains"—is in course of establishment on an area of 40,000 acres at Cunnamulla, Q., made available by the Queensland Govt.; it is financed by the Australian Wool Board.

A new laboratory, mainly for the investigation of dairy-cattle problems, is now complete in Melbourne.

For *Animal Nutrition*. A laboratory has been built in the grounds of the University of Adelaide for fundamental work on animal nutrition problems. This work is linked up with field, calorimetric, and other work at the Waite Agricultural Research Institute (*see below*) and with field stations in various parts of Australia.

For *Forest Products*. A central laboratory has been established at Melbourne, and work on timber seasoning, timber utilization and preservation, and other forest product problems is now actively in progress.

For *Soils Research*. A laboratory erected from a gift to the Univ. of Adelaide by Mr. J. Darling in the grounds of the Waite Agricultural Research Institute, Adelaide, has been equipped and staffed, and is being maintained by the Council as a Soils Research Laboratory.

*For Food Preservation and Transport.* A laboratory for this work has been erected in the abattoir building of the Queensland Meat Industry Board, Brisbane. Investigations are also in progress at the Government Cold Stores, Melbourne, and at certain other places. New laboratories and experiment cold chambers are to be erected in Sydney.

*Radio Research* is in the charge of a Radio Research Board of the Council. The work is financed as to three-quarters of its cost by the Postmaster-General's Dept. and as to the balance by the Council.

*Fisheries.* A fisheries investigation vessel is being constructed in Melbourne.

The Council is working in close co-operation with the State Government Departments, the Universities, and other institutions. It is also co-operating with the British Dept. of Scientific and Industrial Research, and with similar institutions in other parts of the Empire.

Inquiries to be addressed to the Secretary (G. Lightfoot, M.A.).

THE AUSTRALIAN DAIRY CATTLE RESEARCH ASSOCIATION consists of delegates elected by the various Breeding Societies, through the State branches of the Association, together with veterinarians and others interested in its object. Considerable funds for research have been secured. An investigation into Contagious Abortion has been subsidized and arranged in collaboration with the New South Wales Dept. of Agriculture, and the work is being carried on at the Glenfield Research Station; the investigation of Tick Fever, etc., in Queensland, in collaboration with the Council for Scientific and Industrial Research, and an extensive investigation into the subject of Bovine Contagious Mammitis in Victoria by the State Branch of the Association in conjunction with the Council for Scientific and Industrial Research. Inquiries to be addressed to the Hon. Secretary, Australian Dairy Cattle Research Association, c/o Royal Agricultural Society of New South Wales, 33 Macquarie Place, Sydney.

COMMONWEALTH SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE (formerly the Australian Institute of Tropical Medicine), Sydney Univ. See p. 595.

### *New South Wales*

MARINE BIOLOGICAL STATION, Port Jackson. See p. 595.

### *Queensland*

BUREAU OF SUGAR EXPERIMENT STATIONS, BRISBANE. Chief Laboratories and Office at Brisbane. Stations and other laboratories at Meringa (Cairns), Mackay and Bundaberg. Soil research work and breeding, sugar mill technology, entomological investigations in relation to insects injurious to sugar-cane, and pathological investigations into the control of diseases of sugar-cane in Queensland. At present outside research workers are not admitted. Inquiries to be addressed to the Director (H. W. Kerr).

*South Australia*

THE WAITE AGRICULTURAL RESEARCH INSTITUTE, Glen Osmond, S. Australia (*Director*, Prof. A. E. V. Richardson), for research in Agric., Agric. Chem., Plant Pathol., Plant Physiol. and Entomol., was founded with a private endowment in 1924 under the control of the University of Adelaide. The Division of Soils, of the Council for Sci. and Indust. Research, is under the control of Prof. J. A. Prescott. The Waite Inst. is carrying out co-operative investigations with the Council for Scientific and Industrial Research on the mineral deficiencies of pastures, on virus diseases, on various entomological problems and on the tobacco plant. Income, £25,000.

For names of staff, *see* p. 568.

KOONAMORE FIELD LABORATORY is also attached to Adelaide Univ. *See* p. 570.

THE INSTITUTE OF MEDICAL SCIENCE at the Adelaide Hospital (*Director*, E. Weston Hurst, M.D., D.Sc., M.R.C.P.). The staff includes a bacteriologist, an assistant bacteriologist, a clinical pathologist, an assistant clinical pathologist, a veterinary pathologist, a bio-chemist and a research assistant, with an adequate technical staff. The new buildings at present under construction will house the Government Laboratory of Bacteriology and Pathology and the depts. of Pathology, Bacteriology and Applied Physiology of the University of Adelaide; in addition they will provide ample accommodation and modern equipment for research in the fields of bacteriology, human and veterinary pathology, biochemistry and clinical science. The Government makes an annual grant (at present £8000 p.a.) towards the upkeep of the Institute. The University contributes materially to the salaries of some members of the staff. The building is on hospital ground adjacent to the University campus.

*Western Australia*

MOUNT BARKER CO-OPERATIVE LTD., Mount Barker (London Office: Lloyd's Bank Chambers, Henrietta St., Covent Garden, London, W.C.2), started a small experiment station of 8 acres in 1928, one acre planted with year-old trees. The work includes manurial experiments, green manuring, and different methods of planting and cultivation. Another acre of fruit trees was planted for further experiments, including a supply of stocks received from East Malling. The orchard is now coming into bearing and fruit is being marketed. It is also used for instruction to children attending the State school. Outside research workers welcomed

## 3. NEW ZEALAND

THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Wellington, N.Z., was established in 1926. (*Secretary*—E. Marsden, C.B.E., M.C., D.Sc.) The New Zealand Council of Scientific and Industrial Research attached to the Department acts in an advisory capacity to the Government on all aspects of research, with the exception of

medical research, and, through the Dept., undertakes specific research work. Investigations are proceeding in connexion with the following : Dairying ; Wheat, Flour, and Bread production ; Seeds and Plants ; Soil Survey and Land Utilization ; Noxious Weeds Control ; Mineral Content of Pastures ; Phormium ; Tobacco ; Wool ; Fuel ; Fruit ; Cold Storage ; Leather ; Geophysics ; Standardization. Wherever possible the investigations are carried out at already established institutions, such as the four University Colls., the two Agricultural Colls., Cawthron Institute, and the laboratories of the Dept. of Agriculture. Each research fund is under the immediate direction of a Committee representative of the industry contributing towards the cost of the work, and of the Council. Funds for research are secured partly from Government grants, partly from amounts provided by the various industries, and, till recently, from the Empire Marketing Board. The expenditure on research for the financial year 1936-37 was approximately £79,340, approximately £13,300 being provided by Industry.

The branches of the Dept. of Scientific and Industrial Research, viz. Dominion Laboratory, Geological Survey Office, Meteorological Office, Dominion Observatory, Christchurch Magnetic Observatory, and Apia Observatory, all undertake a certain amount of research work, and their staffs are available for co-ordinated investigations.

CAWTHRON INSTITUTE, Nelson, founded 1915, is a privately endowed research Institute, normal income £10,000 p.a. plus grants from the N.Z. primary producers, local bodies, and N.Z. Department of Sci. and Ind. Research. The Institute comprises a technical and industrial museum and research departments in entomology, mycology, chemistry, and agriculture. The main line investigations concern soil surveys, mineral deficiency ailments of stock, nutrition of fruit trees, biological control of insect pests and noxious weeds, and studies of fungous diseases and their control. *Director*, Sir Theodore Rigg, K.B.E., M.A., M.Sc., F.I.C., F.R.S. N.Z.

THE STATE FOREST SERVICE (address, Box 1, Government Buildings, Wellington, C.I.). Total area of State forests in March 1937, approximately 8,000,000 acres, nearly 12 per cent of superficial area of the Dominion ; area of exotic State forests, 426,000 acres. The local land-use problem is being studied systematically and an initial demonstration area to be known as Rotoehu State Forest has been selected enclosing within its boundaries dairy farming, grazing, tobacco-culture, the growing of exotic forests and the milling and replenishment of indigenous forests. The primarily significant point is the attempt to weld tobacco-culture, with its slack winter season, into a single unit with exotic afforestation, with a busy winter season. Forest-community planning has therefore become a definite administrative object and a 5-yr. programme has been begun with a view to making it a major activity second only to the development of forest management in the kauri forests of North Auckland, the rimu pole-type forests of South Westland and the beech forests of the Dominion. Coincident with this expanded planning effort an active programme of utilization projects has been initiated and a commencement will shortly be made with the construction of

sawmills, box-factories and creosoting-plants. These will form the nuclei of a number of integrated forest industries supplying ultimately a complete range of forest products from firewood to pulp and paper manufactures. *Director of Forestry*, A. D. McGavock.

THE DEPARTMENT OF AGRICULTURE, Wellington, C.I., undertakes (1) veterinary research at its Wallaceville Laboratory near Wellington, (2) farm management investigations, (3) chemical investigations of all problems connected with agriculture. Applications from outside research workers to be admitted to the laboratories would be considered and dealt with on their merits.

CANTERBURY AGRICULTURAL COLLEGE, Lincoln. An annual Government grant of £3700 for research is made to Canterbury Agricultural Coll., and, as a result, investigations are proceeding on wheat and other cereal crops, grasses and pasture plants, animal nutrition and disease, farm economics and wool production. The WHEAT RESEARCH INSTITUTE is established in association with Canterbury Agricultural College.

MASSEY AGRICULTURAL COLLEGE, Palmerston North. The College is the chief centre for research in problems connected with sheep and wool and the major portion of its activities is concerned with this field of investigation. Among the investigations now being conducted are : Extensive research into breeding problems in sheep, particularly male sterility ; the practical and economic aspects of intensive rotational grazing with sheep, an area of 80 acres being used ; the factors which influence the seasonal numbers of the internal parasites of sheep. Grass breeding and selection is carried on at the Grasslands Division of the PLANT RESEARCH BUREAU adjacent to the College. The DAIRY RESEARCH INSTITUTE, the central dairy research organization in the Dominion, is located at the College. By agreement between the bodies concerned, the Institute staff do both research and teaching work. Post-graduate research students are accepted.

UNIVERSITY COLLEGES AT AUCKLAND AND WELLINGTON, CHRISTCHURCH AND DUNEDIN, undertake research work in a number of different subjects. This work is promoted by outside grants, or by funds specially available to each College, or by research scholarships.

National Research Scholarships. *See* Appendix II. 23.

#### 4. SOUTH AFRICA

THE SOUTH AFRICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Kelvin House, corner of Marshall and Hollard Sts., Johannesburg. (All communications to the Asst. General Secretary, P.O. Box 6894.) The objects of the Association are : To promote the intercourse of societies and individuals interested in science in different parts of S. Africa ; to obtain a more general attention to the objects of pure and applied science, and the removal of any disadvantages of a public kind which may impede its progress ; to give a stronger impulse and a more systematic direction to scientific inquiry and research. Financial assistance in the past has aided the variable star observations of Dr. Roberts,

the investigation of the desert plant, *Welwitschia mirabilis*, by the late Prof. Pearson, and a survey of fresh-water fishes of S. Africa by the late Prof. Gilchrist. The annual award of the S. Africa Medal and grant has done much to stimulate competition among investigators and to bring the value of their work prominently before the public. The foundation of the Transvaal Observatory (now the Union Observatory) together with the provision of the 26-inch visual refractor, the Botanic Gardens at Kirstenbosch, the Bureau of Soil Erosion attached to the Dept. of Agriculture, and the better economic exploitation of marine resources were the outcome of its recommendations. A Committee has been appointed to collect authentic data of the early history of scientific endeavour and industrial achievement in S. Africa. The Association has in view the establishment of a National Research Council and the inauguration of a national research policy on lines similar to those adopted in Gt. Britain, the Dominions, and other countries overseas.

THE RESEARCH GRANT BOARD of the Union of South Africa, P.O. Box 7137, Johannesburg, was instituted in 1918. The principal functions of the Board are to advise the Government generally regarding the encouragement of research in the Union and to administer all Government grants in aid of research. It is also the body through which the Union of South Africa is affiliated to the International Research Council. Report covering the period 1918-35 was published in 1936.

For particulars of Research Funds and Scholarships, *see* Appendix II. 24.

STELLENBOSCH UNIV., DEPT. OF POMOLOGY, for study of deciduous and citrus fruit trees. The systematic study of varieties, survey of farming conditions, and root stock investigations.

*Viticultural Dept.* for studies in wine and spirit production, table grapes, raisins, etc., new grape varieties, different methods of trellising and pruning, interrelation of stock and scion, etc.

THE EMPIRE COTTON GROWING CORPORATION (*see* Appendix II. 3 above) maintains an Experiment Station for plant breeding, plant physiology, and the investigation of methods of control of insect pests in connexion with cotton-growing at Barberton, Eastern Transvaal. Director—F. R. Parnell, M.A. Camb. The Station is equipped with new laboratories and an experimental farm. There is also a Cotton Experiment Station at Magut, near Vryheid, Natal, and another in Swaziland.

THE GOVERNMENT OF SOUTHERN RHODESIA AND THE EMPIRE COTTON GROWING CORPORATION maintain jointly a Cotton Experiment Station at Gatooma, (Cotton Specialist—G. S. Cameron, M.C., B.Sc.; Chief Plant Breeder—J. E. Peat, B.Sc.), the principal activities of which are the breeding of improved strains of cotton and the investigation of possible means of control of insect pests.

TOBACCO RESEARCH STATION, Trelawney, Southern Rhodesia. Established by Government and under general direction of a Board consisting of growers' and buyers' representatives and members of the Dept. of Agriculture. Chairman, C. K. Brain, M.Sc., Director of



Agriculture. The Station, which is about 45 miles north-west of Salisbury, is fully equipped for conducting all types of investigations and experimental work on the growing and curing of flue cured tobacco of S. Rhodesian origin. Research Staff: Tobacco Research Officer, Plant Breeder, Plant Physiologist, Plant Pathologist, Chemist and Biologist. Officer in Charge: H. F. Ellis, M.Sc.

Citrus research in S. Rhodesia is conducted by a special technical staff of the British South Africa Company on their Mazoe Citrus Estate. Director: W. J. Hall, M.C., Ph.D., D.Sc., A.R.C.S.

VETERINARY RESEARCH LABORATORY, Onderstepoort, Transvaal (Director—Dr. P. J. du Toit), is amongst the largest Veterinary Research institutions in the Empire. The staff includes about 50 professional officers. The most important subjects of research comprise protozoal, virus, and bacterial diseases, helminthology, entomology, poisonous plants, the pathology of these diseases and special pathological problems, mineral metabolism, and other nutritional problems, sterility in cattle and sheep, and other obstetrical and physiological problems. A number of vaccines and remedies are prepared and issued on a large scale. Moreover, a considerable amount of diagnostic work for stock farmers is done. Publication: *Onderstepoort Journal of Veterinary Science and Animal Industry* (quarterly, 5s.; overseas postage 1s. extra), pubd. by the Govt. Printer, Pretoria.

The Faculty of Veterinary Science of the Univ. of Pretoria associated with the training of veterinarians in the Union has been incorporated in the activities of the Research Laboratory at Onderstepoort.

Inquiries should be addressed to the Director of Veterinary Services, P.O. Onderstepoort. (Telegraphic Address—"Microbe," Pretoria.)

FOREST RESEARCH STATION, Deepwells, Knysna, C.P., maintained by the Union Forest Department for the study of various ecological and biological features of the indigenous forests, the rate of growth of natural regeneration and of plants set out in forests under varying degrees of canopy and kinds of site.

LOW TEMPERATURE RESEARCH LABORATORY, Cape Town. Established in 1926 by the Union Department of Agriculture as a section of the Division of Plant Industry for investigations into the storage and transportation of perishable products. Close contact is maintained with the Low Temperature Research Station, Cambridge, and other Dominion research workers. Inquiries to be addressed to the Superintendent (Mr. Rees Davies), Dept. of Agriculture, P.O. Box 3, Cape Town.

THE FUEL RESEARCH INSTITUTE OF SOUTH AFRICA, Lynnwood Road, Pretoria. Postal Address—P.O. Box 217. Telegrams, "Furesbo." Director—Dr. J. C. Vogel, D.Sc., Dipl. Ing. Established by Union Government Act No. 36 of 1930 (later amended by Act No. 2 of 1933). The Institute grades all coals destined for export through or bunkering at South African ports. Research work includes the detailed investigation of the chemical and physical properties of South African coals; the influence of local conditions on coal cleaning and coal processing

methods ; the production of liquid and gaseous fuels from coal, lignite and oil shale ; the combustion characteristics of local coals ; the production of coke and coal by-products ; the sampling of coal, and such other fuel problems of South African interest as, from time to time, arise. Publications of the Institute may be obtained from the Secretary, Box 217, Pretoria.

THE SOUTH AFRICAN INSTITUTE FOR MEDICAL RESEARCH, Hospital St., Johannesburg. Postal address—P.O. Box 1038. Telegrams, "Bacteria." Director—Sir Spencer Lister, LL.D., L.R.C.P., M.R.C.S. Researches in pathology include tissue culture *in vitro* ; the ætiology of tumours ; studies of the immunity processes in Rous sarcoma ; histology of the normal lung ; investigations into the pathology and histopathology of silicosis and other pneumoconioses and a study of the part played by sericite in the causation of these diseases ; prophylaxis of the pneumonias and other acute respiratory diseases ; comparative immunity of reptiles and the higher animals to bacterial toxins and snake venoms ; active and passive immunity to snake venoms ; detoxication of snake venoms without destroying their antigenic qualities ; the antigenic and other properties of bacterial endotoxins and the use of these substances in the prophylaxis and treatment of various diseases. Parasitological researches in connexion with trematodes and esp. in relation to bilharzial disease, etc. Entomological researches into the bionomics more particularly of anopheline mosquitoes and the fleas of veld rodents. Biochemical investigation in connexion with vitamins, dental caries, calcium metabolism, etc. Publications either by the Institute (including annual report) or in various medical journals.

## 5. INDIA

### AGRICULTURE AND VETERINARY SCIENCE.

#### *Government of India*

THE IMPERIAL COUNCIL OF AGRICULTURAL RESEARCH was constituted by a Resolution of the Govt. of India (May 23, 1929) with the following objects :

- (a) The promotion, guidance, and co-ordination of agricultural research throughout India.
- (b) The training of research workers under a scheme of research scholarships or in other ways.
- (c) The collection and dissemination of information in regard to agricultural and veterinary matters generally.
- (d) The publication of scientific papers, etc.

[The information contained in this paragraph has been supplied by the Officiating Vice-Chairman of the Council.]

The Govt. of India have so far made, or, subject to the vote of the Central Legislature, have undertaken to make, the following grants to the Research Council.

- (a) A grant to cover the administrative charges of the Council ;
- (b) An annual grant for research of five lakhs ;
- (c) A lump sum grant of 25 lakhs to form the nucleus of a non-lapsing research fund which would enable the Council to make definite provision for research schemes.
- (d) Grant for sugar research—Rs. 20 lakhs.
- (e) Grant to meet the cost of Provincial Marketing Schemes—Rs. 10 lakhs @ Rs. 2 lakhs p.a. for a period of 5 yrs.
- (f) Grant to meet the expenditure required for the repair of the damage done by the earthquake of January 1934, to the Sugar-cane research Station at Mushari in Bihar—Rs. 33,000.
- (g) A special grant of Rs. 11,36,400 payable in March 1937 for financing certain approved research schemes of an urgent nature.
- (h) Special grant for Sugar schemes from Sugar Excise Fund—Rs. 2,50,000.
- (i) Grant for Cold Storage scheme—Rs. 1,00,000.

The Governing Body is a non-technical body presided over by the Hon. Member of the Viceroy's Council in charge of the portfolio of agriculture, and including as members the 11 Ministers of Agriculture in the provinces, 3 representatives of the Central Legislature, 2 representatives of Commerce, 2 representatives of the Advisory Board, and such addnl. representatives as the Governor-General in Council may appoint, a provision which will allow of the representation of Indian States whenever necessary. The Vice-Chairman of the Governing Body is Vice-Chairman of the Imperial Council of Agric. Research and its principal administrative officer. The Advisory Board is the technical section of the Council, and includes the representatives of provincial agric. and vet. depts., of research institutes, and of assns. organised for research and of univs., a co-operative representative, and addnl. scientific representatives.

The advisory work connected with the Govt. of India's policy towards agricultural matters in general, and those matters such as legislation against diseases and pests and the regulation of imports which are reserved for central legislation and central executive action, is now performed by the Vice-Chairman of the Research Council in consultation with his Expert Advisers. There is the further important development that matters of general importance can be referred by the Govt. of India and by Local Govts. and such Indian States as have joined the new organization to the Imperial Council of Agric. Research as a whole.

The whole-time staff consists of the Vice-Chairman, 3 Expert Advisers, 2 Assistant Experts and the Secretary.

The Council has been registered as a Society under the Societies Act in order that it may possess the financial independence necessary for its work.

The research side of the Society is defined as follows in the Memorandum of Association :

- (a) To aid, develop, and co-ordinate agricultural and veterinary research in India by promoting scientific (including technological) research, instruction, and experiments in the science,

methods, and practice of agriculture (incl. marketing of agric. produce) and by promoting veterinary research and instruction in vet. science by the diffusion of useful information and by such other means as appear calculated to develop agric. and vet. research.

- (b) To act as a clearing-house of information not only in regard to research, but also in regard to agric. and vet. matters generally.
- (c) To establish and maintain a research and reference library, in pursuance of the objects of the Society, with reading and writing rooms, and to furnish the same with books, reviews, magazines, newspapers, and other publications.

In addition to its main objective—the fostering of research work—the Council is charged with the dissemination of information and the encouragement of post-graduate training in the various branches of science and technology as applied to agric. In countries like India, where research workers are necessarily scattered and distances great, there is obviously need for an agric. information bureau, and a start has been made by subscribing to the 8 Imperial Agricultural Bureaux recently established in England on the recommendation of the Imperial Agricultural Conference of 1927 (*see* A. VIII. *supra*). The Expert Advisers to the Imperial Council of Agric. Research act as official correspondents with the bureaux, but the essence of the new organization is that individual research workers themselves correspond freely with the bureaux. There have already been gratifying indications that the Imperial Council of Agric. Research will receive the whole-hearted support both of agric. workers in India and res. workers in the cognate sciences in their efforts to collect, for supply to other workers in India and for transmission to the Imperial Bureaux, full particulars of work done in India and suggestions for further work to fill in gaps in existing knowledge. The measures necessary to build up in India a more adequate corps of scientific workers for the improvement of Indian agric. are being continuously studied.

The Research Council, though at present mainly financed by the Govt. of India, is free to receive contributions from other sources, and has in fact already received a gift of two lakhs of rupees from the Govt. of H.E.H. the Nizam's Dominions. The Indian States of Mysore, Baroda, Kashmir, Cochin, and Travancore have also each agreed to pay a donation of Rs. 100,000 in 20 annual instalments and the State of Bhopal has agreed to pay a donation of Rs. 50,000 in 20 equal annual instalments. It is hoped that many more contributions from Indian States and private benefactions will be received. The Research Council's power to aid Indian agric. is only limited by its financial resources. It stands in the same relation to all research institutions, whether official or unofficial, central or provincial, and promotes research by grants to existing instns. The research grants so far sanctioned amount to about Rs. 1,18,84,000 (about £891,300).

Inquiries to be addressed to the Secretary of the Council, New Delhi.

IMPERIAL AGRICULTURAL RESEARCH INSTITUTE, New Delhi. This Institute, which was founded in 1904 from a fund given to the Viceroy,

Lord Curzon, by Mr. Henry Phipps, an American philanthropist, was originally located at Pusa in Bihar. But, owing to the damage done by the great earthquake of Jan. 1934, the Government of India decided to transfer the Institute to a site near New Delhi, where it has been reconstructed and has been functioning since Sept. 1, 1936. In its new environment, the Institute has one great advantage, viz. easy accessibility from all parts of India, the lack of which was recognized as a great disability of Pusa. The total area of the new Institute consists of about 800 acres, of which about 300 are under buildings and roads and the rest is agricultural land. There are 6 Sections altogether, 5 of which are at New Delhi, viz. Agricultural, Botanical, Soil Science and Agricultural Chemistry, Mycological, and Entomological. The Sugar-cane Breeding Station is at Coimbatore. At New Delhi there are up-to-date laboratories, scientific library, and herbaria. The research is devoted to the main to problems of all-India importance. Specialized post-graduate courses extending over 2 yrs. are given in agricultural botany with special reference to plant genetics, biometry and field trials, mycology, entomology, agricultural chemistry with special reference to soil science and sugar-cane breeding and cultivation. Post-graduate training in farm organization, farm management and general farm engineering, one year. The Institute also supplies information and advice to inquirers. *Director*, Rao Bahadur B. Viswa Nath, F.I.C.

IMPERIAL VETERINARY RESEARCH INSTITUTE, Mukteswar, U.P., conducts research in diseases and nutrition of domestic animals and poultry. Applications from outside research workers to visit the Inst. should be addressed to the Director.

*Telegrams*—"Vetex," Mukteswar-Kumaun.

CENTRAL BOARD OF IRRIGATION. A body consisting of all the Chief Engineers (Irrigation) in India: its object is the exchange of information and experience on irrigation and allied subjects among the Irrigation Departments in India. Attached to the Board are a library and an information bureau. The Board, through its bureau, maintains touch with other bodies having similar interests throughout the world. The Board meets annually in November; the Research Committee, in July; the Executive Committee meets two or three times annually. The office of the Board, the information bureau and the library are under the direct control of a permanent technical Secretary. Address: The Secretary, Central Board of Irrigation, "Central Telegraph Building," Simla, India.

### *Assam*

TOCKLAI EXPERIMENTAL STATION, Cinnamara P.O. (*Telegrams*—"Sciencita," Cinnamara) is maintained by the Indian Tea Assn. It is sp. concerned with the improvement of manufacture, and the study of factors influencing crop-production. Outside research workers not received. The staff includes 3 Chemists, 1 Mycologist, 1 Bacteriologist, 1 Botanist. *Chief Scientific Officer*, P. H. Carpenter, F.I.C., F.C.S.

*Indore*

INSTITUTE OF PLANT INDUSTRY, Indore. Established 1924. Incorporated 1928 as a Society. Many of the States in Central India and Rajputana are members, giving yearly subscriptions and donations. Indian Central Cotton Committee provided buildings and equipment and make annual grants. Objects: (i.) Investigation of all matters relating to the production and improvement of raw cotton in India. (ii.) Agricultural development of the territories of the Princes and Chiefs who are members of the Society. (iii.) Training of nominees of such Princes and Chiefs and of advanced students nominated by the Indian Central Cotton Committee. Occasionally outside research students are accepted.

Is carrying on fundamental research on the botany, genetics, and agronomy of cotton, and practical plant breeding and cultural improvement on the cotton crop of Malwa and neighbouring areas; also on other crops bound up with the agricultural economy of the areas dealt with. The Director (T. R. Low, I.A.S.) is also Agricultural Adviser to States in Central India and Rajputana.

*Madras*

There are 3 Fruit Stations, at Coonoor, Burliar, and Kallar. Coonoor is investigating varieties of apples, Japanese plums and persimmons, and miscellaneous sub-tropical fruit, especially in relation to climatic conditions. Burliar and Kallar are attacking the problem of propagating the mangosteen. Outside research workers not admitted. Inquiries to be addressed to the Curator, Government Botanic Gardens, Ootacamund.

*Mysore*

DEPARTMENT OF AGRICULTURE, MYSORE STATE. There are extensive research laboratories in Bangalore for Agric. Chem., Plant Breeding, Plant Pathol., Entomol. investigations, and a Veterinary Serum Institute where research is prosecuted into the diseases of cattle and sheep and sera and vaccines for different cattle diseases are prepared for general supply.

Besides these there is a Coffee Experiment Station near Balehonnur in the Kadur district, where work on coffee disease problems is closely co-ordinated with breeding and grafting work, sp. areas being set aside for testing disease-resisting powers of selections.

The United Planters Association's (S. India) Coffee Scientific Officer is attached to the Station, and is engaged on phytopathological investigation in co-opn. with the Dept. in work on disease resistance in the selections made. Physiol. problems bound up in flower bud production, fruit setting, and fall of partly developed fruit are also being studied, and the root systems of commonly planted types of coffee.

There are a number of other experimental farms for the different crop areas of the State, viz. at Marthur for areca nut and pepper, at Nagenhalli for paddy breeding, at Hebbal for ragi, groundnuts, sugarcane and paddy, at Hunsur for Kar ragi, at Ganadal for sugarcane,

and at Babbur for cotton, jola, cocoanut and sugar-cane. Live Stock farms comprise a Cattle Breeding Station for draught cattle at Ajjampur, Sheep farms at Yelachihalli and Hebbal; the Palace Dairy of His Highness the Maharaja of Mysore is under the technical supervision of this Dept. Treatment of cattle diseases is undertaken at numerous Veterinary Dispensaries and through a Mobile Corps of Vet. Surgeons to deal with outbreaks of cattle epidemics.

All these are under the control of the Director of Agriculture, Bangalore, Mysore State, to whom applns. should be made by investigators wishing to work in the laboratories and farms.

### *Panjab*

COTTON RESEARCH LABORATORY, Lyallpur. Maintained jointly by the Panjab Government and the Indian Central Cotton Committee. The chief work is the improvement of both indigenous and American varieties of cotton by methods of selection and hybridization. Several improved strains of these cottons have been evolved. Improvement in cultural operations and ecological and physiological studies of the cotton plant are also a part of the programme. Outside research workers are admitted.

At the Panjab Agricultural College and Research Institute, of which the Cotton Research Laboratory is a part, other cotton research which is financed similarly is also in progress. It deals with insect pests, mycological diseases and physiological and biochemical aspects of cotton growing.

Inquiries to be addressed to the Director of Agriculture, Lahore.

*See also under Medicine—Pasteur Inst. of Southern India.*

### *Burma*

Under the direction of the AGRICULTURAL DEPARTMENT of the Government of Burma—Secretariat, Rangoon—research is being carried on in the following sections:

*Chemical*: Analyses mostly in connexion with soils and oil seeds; investigation soils on which the "myitpo" disease of paddy occurs; composition and character of the black cotton soil of the Mandalay area with special reference to its effect on the foundations of buildings—the last two in collaboration with the Forest and Public Works Depts.; survey of fodders and feeds.

*Botany and Plant Breeding*: Investigations continued into paddy, butter beans, sesamum, chillies, wheat and pulses.

*Mycology*: Investigation of diseases of paddy, wheat, chillies and betel vine; storage of mangosteens, mangoes, and citrus fruits; cultivation of indigenous mushrooms.

*Entomology*: Special investigation of Beetle Pest, *Alissonotum impressicolle*, of boll worms on cotton, and of pests on peas and beans in field and store.

*Sericulture*: Production of superior multivoltine races of worms by hybridization and improvement of mulberry.

*Rice*: Investigations into the improvement of Burma rice, for quality

and yield, by selection, hybridization, cultivation, and manuring. The principal rice stations are at Hmawbi, Mandalay, Akyab, Myaungmya and Mudon.

Departmental seed farms in 1936-37 numbered 202 and 7328 tons of pure seed were distributed to growers.

Research is also being carried on in sugar-cane, cotton, sesamum, groundnut, pulses, tobacco and stock breeding.

*Horticulture* : Experiments in methods of propagation and cultivation of indigenous and exotic species of fruits (citrus, mango, mango-steen, litchi, sapota, pineapple, etc.) conducted mainly on upland areas of Hmawbi, Mudon, Myaungmya and Akyab Agric. Stations.

## FORESTRY.

### *Government of India*

THE FOREST RESEARCH INSTITUTE, Dehra Dun, U.P. (*President*—Sir C. Gerald Trevor, C.I.E., Inspector-Genl. of Forests), the largest in the Empire, if not in the world, opened Nov. 1929. Dehra Dun has been a centre of scientific forest work since 1878. The building is surrounded by 1150 acres of land, part of which is devoted to experimental gardens and plantations. The Silviculture Branch investigates the principal problems presented by the forests of India and co-ordinates work done throughout the provinces. The Utilization Branch includes sections dealing with timber testing, wood seasoning, wood preservation, wood technology, wood working, minor forest products, and paper pulp. The Chemical Branch deals largely with minor forest products, while the Entomological and Botanical Branches make independent investigations apart from advising the Forest Dept. generally and the Institute in particular. Valuable collections are maintained illustrating the scope of forestry in India. There are two forest colleges attached to the Institute ; the senior college for training men for direct appointment as forest officers has been closed temporarily owing to a reduction of posts by provincial governments ; the junior coll. for training forest rangers provides a 2 yrs.' course including prolonged tours for practical work in the forests of the United Provinces. Inquiries should be addressed to the President, Forest Research Institute and College, Dehra Dun, U.P., India.

## INDUSTRIAL.

### *Bengal*

INDUSTRIAL RESEARCH LABORATORY AND BENGAL TANNING INSTITUTE, Calcutta, maintained by the Bengal Government. The Tanning Institute started in 1919 has a research organization. It now combines research with technical instruction in all aspects of the leather trade, including investigations into local tanstuffs. The Industrial Research Laboratory was built on the same site in 1927. It has two depts., Chemical and Engineering. In the former, researches are conducted which have a bearing on the chemical and chemical engineering



problems involved in utilizing the natural resources of the province such as oil seeds for the soap industry, resins for varnishes, shellac, compositions for matches, problems of bleaching and dyeing for textiles, etc. In the Engineering section of the Laboratory, research is confined to the problems of devising improved plant and apparatus for various indigenous industries, such as forged and cast brass and bell metal ware, cutlery, marking and bending of umbrella handles, pottery equipment, and, recently, researches into the problems of drying rice grain before husking, and soap and other articles, in regard to which drying by solar exposure is difficult during the monsoon. No regular provision for research students is made, but honorary workers are from time to time associated with the work in progress. Training classes for instruction are arranged and are at present held in the improved methods of cottage-scale manufacture of brass and bell-metal ware, cutlery, glazed pottery, umbrellas, and washing soap under the auspices of the Laboratory, and boot, shoe, and leather goods under the Tanning Institute. Industrial inquiries to be addressed to the Director of Industries, Bengal, Calcutta.

WEAVING INSTITUTE, Serampore, also maintained by the Bengal Government. Instruction is given to male and female students on weaving and dyeing cotton, wool and jute on which researches are also carried on.

### *Bihar*

THE INDIAN LAC RESEARCH INSTITUTE, Namkum, Ranchi, Bihar, formerly maintained by the Indian Lac Association for Research, Royal Exchange, Calcutta, is financed by a cess on the exports of shellac from India. It conducts research into the cultivation of lac and the manufacture of shellac.

This research is important, as the competition from synthetic products is on the increase. It falls under two main heads, entomological and chemical. The former has for its objective, first, the investigation of the morphology, bionomics, and physiology of the lac insect, *Laccifer lacca*, and of the insect parasites and predators affecting it; secondly, the investigation of the host trees on which the insect lives, their growth, insect pests, and methods of cultivation and the relationship between insect and host.

The Chemical research consists in the investigation of improved methods of manufacture, the standardization of the resulting shellac, and the use of shellac in various industries.

The Amended Lac Cess Act of 1936 provides for the control of the Indian Lac Research Institute by a Committee appointed by the Govt. of India, consisting of two bodies—the Advisory and the Governing. The cess collected is spent in research at the three centres: Namkum, London (London Shellac Research Bureau) and New York (Shellac Importers' Assn.).

Training in improved scientific methods of lac is imparted to "Kamdars" (expert Agricultural Supervisors) and others interested in the production of lac. Inquiries to the Director, Indian Lac Research Institute, Namkum, Ranchi.

*Bombay*

TECHNOLOGICAL LABORATORY, Matunga, Bombay (*Director*—Nazir Ahmad, M.Sc., Ph.D., F.Inst.P.), maintained by the Indian Central Cotton Committee. Opened in Dec. 1924; total cost, £168,142. Its chief work is the making of spinning tests on cottons grown in all parts of India, and the investigation of fibre properties affecting the spinning quality of cotton. The Committee makes grants-in-aid to Provincial Depts. of Agric. for research work on cotton. Outside research workers not admitted as a rule.

*United Provinces*

HARCOURT BUTLER TECHNOLOGICAL INSTITUTE, Cawnpore, U.P., estd. 1921. This Inst., which is primarily intended to train men for responsible positions in industry, also has facilities for technical research with a view to promote the industrial development of the United Provinces and the country generally. Organized in the following depts.—Oil, and general research. There is also a general workshop, engin. lab., and library. Contact with the requirements of industry is maintained by a Board of Studies and Research. Inquiries to be addressed to the Principal.

[For additional information about many of the foregoing instns., see Handbook of Indian Universities, pubd. by the Inter-University Board, Cawnpore, India.]

PURE SCIENCE.*Bengal*

THE NATIONAL INSTITUTE OF SCIENCES OF INDIA, 1 Park Street, Calcutta, founded Jan. 7, 1935.

Its most important objects are :

(i.) To effect co-ordination between scientific academies, societies, institutions, and Government scientific departments and services.

(ii.) To act as a body of scientists of eminence for the promotion and safeguarding of the interests of scientists in India : and to represent internationally the scientific work of India.

(iii.) To act through properly constituted National Committees in which other learned academies and societies will be associated, as the National Research Council of India, for undertaking such scientific work of national and international importance as the Council may be called upon to perform by the public and by Government.

(iv.) To publish such proceedings, journals, memoirs and transactions, and other publications as may be found desirable.

President, 1938—Prof. M. N. Saha, D.Sc., F.R.S.

THE BOSE RESEARCH INSTITUTE, 93 Upper Circular Rd., Calcutta (*Telegrams*—Bostute), founded in 1917 by the late Sir J. C. Bose, F.R.S., who was also its Director, is concerned with investigations into different branches of knowledge—in Plant and Animal Physiology, in Biochemistry, in Zoology, in Anthropology and in certain modern advances

in Physics. In recognition of its being an international centre of science, it receives a subsidy from the Govt. towards its upkeep.

THE INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE, 210 Bowbazar Street, Calcutta, founded in 1876 by the late Dr. Mahendra Lal Sircar with the object of providing facilities for scientific research in India, is equipped with a Laboratory built and equipped at the expense of the late Maharaja of Vizianagram, Mr. K. Tagore and others, a library, and a lecture hall. Considerable improvements in the Laboratory have been made since then, and it is now well adapted for research in various branches of Physics. The Laboratory is open to qualified workers from all parts of India. Special facilities for work in X-rays, magnetism, spectroscopy and crystallography. The Institute receives a grant of Rs. 18,000 p.a. from the Govt. of India. The Association grants a number of scholarships and stipends. Director, Dr. K. S. Krishnan, Mahendra Lal Sircar Research Professor of Physics of the Assn.

### *Bombay*

THE ROYAL INSTITUTE OF SCIENCE, Bombay, is designed to conduct undergraduate teaching side by side with post-graduate research in the Departments of Chemistry (Physical, Inorganic, and Organic), Physics, Zoology, and Botany. Inquiries should be addressed to the Principal (T. S. Wheeler, Ph.D., F.I.C., F.Inst.P., M.I.Chem.E.).

### *Mysore*

THE INDIAN INSTITUTE OF SCIENCE, Bangalore (*Telegrams*—Science, Bangalore, Code ABC, 5th edn.), established and originally endowed by the late Sir Dorabji J. Tata and the late Sir Ratan Tata, has as its object the promotion of advanced studies and original research with special regard to the educational and economic interests of India. (For staff, v. p. 784). Its total income is now approx. Rs. 5.49 lakhs, towards which the Government of India contributes Rs. 1.5 lakhs, the Government of Mysore Rs. 30,000, the Government of Bombay Rs. 5000, the Government of the Central Provinces Rs. 1500, the Government of Travancore Rs. 3000 and the Govt. of Madras Rs. 5000. During recent years the Dept. of Elect. Technology has been greatly enlarged in order to satisfy the demand for qualified elect. engineers caused by electrical developments in India. Director-in-Charge, Rao Bahadur B. Venkatesachar, M.A., F.Inst.P.

### MEDICINE.

*Medical research* is systematically arranged for by the Government of India, either directly or through local Govts., at central or provincial institutions.

### *Government of India*

THE CENTRAL RESEARCH INSTITUTE, Kasauli (*Telegraphic Address*—"Problem," Kasauli), is the Bacteriological Laboratory and Medical

Research Institute of the Government of India, situated in the Himalayan foot-hills, about 50 miles from Simla. With it is associated the Malaria Survey of India, at present financed by the Indian Research Fund Association until such time as it may be taken over by Govt. The buildings were enlarged and remodelled during the years 1933 and 1934, and the Institute is now thoroughly up to date both in regard to accommodation and equipment.

The functions of the Institute are of an All-India character and only incidentally local. It is the headquarters for basic research, inquiries in the field and other medical research activities connected with the Government of India, and is very closely linked with the Indian Research Fund Association, which maintains a publication office for the *Indian Journal of Medical Research* and *Indian Research Memoirs*, a special library for the assistance of Indian Research Fund Assn. workers in the field, and a store at the Institute. The Inst. also manufactures on a large scale anti-typhoid, anti-cholera, and influenza vaccines and antivenomous serum (antivenin), of which, taken together, about 2 million c.c. are issued annually.

General facilities are given to a certain number of persons to study or gain experience in the laboratories, but the chief outside relations are with researches under the Indian Research Fund Assn., now largely responsible for the conduct of medical research in India.

The Director's office edits the *Indian Journal of Medical Research* and the *Indian Research Memoirs*, in which Journal and Memoirs most of the results of medical research work in India are published. The Malaria Survey of India publishes the *Records of the Malaria Survey of India*, a new series intended for the publication of important malaria papers and memoirs.

Inquiries should be addressed to the Director.

### Assam

THE KING EDWARD VII. MEMORIAL PASTEUR AND MEDICAL RESEARCH INSTITUTE, Shillong, was built from part of the proceeds of the Memorial Fund to King Edward VII. It was opened in 1917 and is maintained by the Government of Assam. The staff consists of the Director, who is an officer of the Research Dept., a Military Asst. Surgeon, two Civil Sub-Asst. Surgeons, and one or more additional officers engaged from time to time on special Researches.

The Institute is the headquarters of the Assam Medical Research Society formed to investigate communicable diseases in Assam. The Society is at present mainly concerned with researches on malaria. In addition to being the Provincial Pasteur Institute, the Institute prepares all the cholera and T.A.B. vaccine and therapeutic bacteriophage for the Province of Assam, carries out routine examinations for medical officers, and assists the Public Health Dept. with the investigation of epidemics. The laboratories are well equipped and up to date, and accommodation can generally be made for research workers. Inquiries should be addressed to the Director (Lt.-Col. L. A. P. Anderson, M.A., M.D., B.Chir., D.P.H., D.T.M. & H., I.M.S.).

### *Bombay*

THE HAFFKINE INSTITUTE, Parel, Bombay (*Director*—Lt.-Col. S. S. Sokhey, I.M.S., M.A., B.Sc., M.D.; *Asst. Directors*—Major R. C. Wats, M.D., D.P.H., D.T.M., I.M.S.; P. M. Wagle, M.B., D.P.H.), is the principal centre of Plague research in India. Researches are also being carried on in bio-chemistry of tropical diseases, antirabic inoculation, plague. The last one is carried on under the Indian Research Fund Association. The Institute is the seat of manufacture of Haffkine's plague prophylactic for the East. Antirabic vaccine is manufactured at this Institute and distributed to various centres. It also functions as the principal diagnostic centre for the Bombay Presidency and adjacent Indian States. It is a large and well-equipped laboratory, and supplies facilities for research. Applications may be made to the Director.

### *Madras*

THE KING INSTITUTE OF PREVENTIVE MEDICINE, Guindy, Madras, about 7 miles from Madras, founded 1903 and named after Col. W. G. King, C.I.E., I.M.S., Sanitary Commissioner of Madras, who was chiefly responsible for its inception. *Director*—Lt.-Col. H. E. Shortt, I.M.S. At first its main work was the supply of vaccine lymph to the Madras Presidency, but its activities have been greatly extended. They are as follows: (For the whole Presidency) (1) The only lab. for the manufacture of vaccine lymph; (2) the lab. for the manufacture of all bacterial vaccines except plague, and of sterile solutions and culture media; (3) the main general bacteriological lab. for clinical bacteriological and serological diagnostic purposes; (4) the only Govt. Public Health Lab. for the bacteriological and chemical examn. of water supplies, milk, food, etc. (including the lab. for the Government Analyst); (5) a cold storage and distributing centre for sera for human use; (6) a general clinical and public health research lab. and the centre for mobile investigation units (for all the Madras Hospitals except the Gen. Hospl.); (7) the clinical bacteriological lab.

The Inst. covers several acres of ground and consists of a main building for the bacteriological and chemical work, a new subsidiary block for vaccine lymph work, and many outbuildings. It has its own water and gas supply, runs a large cold store and makes its own ice, and has a set of experimental water filters with storage tanks and sand and mechanical filters. Staff: Director, 2 Asst. Directors, 1 Govt. Analyst, 8 Asst. Surgeons, 3 non-med. gazetted Senr. Assts., 6 Junr. Bacteriolog. Chem. and Vaccine Assts., together with 169 lab. attendants and other subordinates—total, 190.

Important work continues to be done by the *Mobile Investigation Units*.

Recent research includes investigations into vaccine lymph, dysentery and cholera bacteriophages, puerperal sepsis, the purification of water, the growth of vaccine virus in tissue cultures and the chorio-allantoic membrane of chick embryo, research on various protozoal. diseases and various viruses and experimental Bore Hole Latrines.

*Panjab*

PASTEUR INSTITUTE OF INDIA, Kasauli. *Telegrams*—"Pasteur." The Institute exists primarily for the provision of antirabic treatment to persons who are at risk owing to bites from, or contact with, rabid animals. It has also 96 civil and 39 military treatment centres. Total number of patients in 1936, 18,620 (1357 Europeans and 17,263 Indians. Combined percentage death-rate, 0.52. The Institute is at present carrying on two researches, one on the therapeutic aspect of rabies, and one on the aetiology of typhus fever. Inquiries to be addressed to the Director.

*Southern India*

PASTEUR INSTITUTE OF SOUTHERN INDIA, Coonoor (*Director*—Major K. R. K. Iyengar, I.M.S.). *Telegraphic Address*—Lyssa. Built with a portion of a fund of £30,000 given to the Viceroy, Lord Curzon, by Mr. Henry Phipps, an American philanthropist. In addition to affording antirabic treatment for the whole of Southern India, research work on rabies, malaria, kala-azar, filariasis, and on entomological and other subjects has been carried out by workers at the Institute, and the results have been published in the *Indian Journal of Medical Research*. The following papers, dealing with work done at the Institute, were published during 1934: (1) A Preliminary Note on the Electrical Charge carried by the Rabies Virus; (2) Electrophoresis Experiments with Rabies Virus; (3) Inactivating Effect of Ultra-Violet Light on the Virus of Rabies. Since 1918, accommodation has been given to the workers on nutritional research financed by the Indian Research Fund Association.

During the year 1935, 433 patients underwent the complete course of treatment, and 102, incomplete treatment at the Institute. 14,084½ courses of antirabic vaccine were issued to other centres and 8120 c.c. of 1 per cent and 16,184 c.c. of 5 per cent antirabic vaccine for veterinary use. 2611 specimens were received for clinical and bacteriological examination.

During the year 1936, 493 patients underwent the complete course of treatment and 76 incomplete treatment at the Institute. 15,302 courses of antirabic vaccine were issued to other centres and 64,120 c.c. of 5 per cent antirabic vaccine for veterinary use. 3529 specimens were received for clinical and bacteriological examination.

*Burma*

PASTEUR INSTITUTE OF BURMA, Rangoon. (*Telegrams*—"Virus," Rangoon.) *Director*—Lt.-Col. G. C. Maitra, I.M.S. Opened 1915, (1) to carry out antirabic treatment, (2) to act as the Govt. Bacteriological Laboratory for Burma. Routine bacteriol. examns. and antirabic work form the greater part of its activities. Research on subjects for which there are facilities undertaken through grants usually obtained from the Indian Research Fund Assn. Subjects hitherto studied include beri-beri, leprosy, leptospirosis, antirabic vaccine, bacteriophage in dysentery and cholera, water bacteriology, distribution of tropical typhus in Burma and serological types of cholera vibrio isolated from cases occur-

ring within the limits of the City of Rangoon. An occasional worker may be given laboratory facilities by arrangement with the Director.

In 1936 (the last complete year for which figures are available) a total of 3702 persons came forward for antirabic treatment from the whole of Burma. Out of those 2175 underwent the full course of treatment, 473 commenced the treatment but absconded before completion of the course; 542 were given partial treatment as the biting animals remained alive and well for 10 days after inflicting the bite and 511 persons were advised that antirabic treatment was unnecessary. One person arrived too late for treatment, developed hydrophobia and died. The mortality among the treated was 0.11 per cent.

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THE INDIAN RESEARCH FUND ASSOCIATION, Simla, supported by its grants from the Government of India, assists in financing inquiries by all these institutions, and employs not only Indian Medical Service Officers but also workers outside the Services in studying the most urgent tropical disease problems. The objects of the Association are the prosecution and assistance of medical research, the propagation of knowledge and experimental measures generally in connexion with the causation, mode of spread, and prevention of diseases, primarily those of a communicable nature. All proposals for research under the Association are examined by the *Scientific Advisory Board*, which consists of experts chosen from the Research Institutes of the country as well as from the central medical administration. This Committee is thus able not only to assess the value of proposals, but also to co-ordinate and prevent overlapping, and it is largely on its recommendations that the grants from the Association are made. Apart from grants-in-aid to teachers, bureaux and publications, it has financed numerous researches, the selected results of which are published quarterly in the *Indian Journal of Medical Research* and its *Memoirs*, and in the *Records of the Malaria Survey of India*.

## 6. BERMUDA

THE BERMUDA BIOLOGICAL STATION FOR RESEARCH, Inc., St. George's West. Established 1903. In 1929 a grant of £50,000 was received from the Rockefeller Foundation for the purpose of developing large-scale oceanographical investigations to be linked up with those of the newly founded Woods Hole Oceanographical Institution, U.S.A. The Govt. of Bermuda provided a site of 12½ acres with an initial grant of £5500, and makes an annual grant of £400 for 10 yrs. towards its maintenance. In 1936 the Development Commission of Gt. Britain made a grant, including a capital sum for a ship and gear and a recurrent sum for salaries of staff and running expenses, for a 5 yr. study of North Atlantic and Gulf Stream problems.

The main building includes living and working quarters for some 30 workers. The Station possesses a 24-ft. launch, 2 small dories, a diving helmet and other equipment for collecting purposes. There is a reference library. Open to research workers from all countries. Applications must be made on the official form to the Director (J. F. G. Wheeler), at

the Station, or to C. O'D. Iselm, Woods Hole Oceanographic Institute, Woods Hole, Mass.

### 7. CEYLON

**RUBBER RESEARCH SCHEME (CEYLON).** Established under Government Ordinance for the purpose of conducting research on the production and utilization of raw rubber and financed by the levy of a cess on rubber exports. Income for 1936, Rs. 178,000. The headquarters of the Scheme are at Dartonfield Estate, Agalawatta. The present staff in Ceylon consists of 5 Technical Officers (2 Chemists and 3 Botanists). An Experiment Station (100 acres) is established a few miles from the laboratories for testing budgrafts from high yielding Ceylon trees. Dartonfield Estate (178 acres) was purchased in 1933 and is being utilized for experiments in cultivation, replanting and manufacture. An experimental factory and chemical laboratory were erected in 1934. Research on vulcanization problems, conducted at the Imperial Institute, London, by 3 Technical Officers, is jointly financed by the Rubber Research Scheme (Ceylon) and the Rubber Research Institute of Malaya and is controlled by a Committee representing Producers and Manufacturers. Inquiries should be addressed to the Director (T. E. H. O'Brien) Rubber Research Laboratories, Dartonfield, Agalawatta, Ceylon (*Telegrams*—"Rubrs," Agalawatta), or to the Secretary, London Advisory Committee for Rubber Research (Ceylon and Malaya), Imperial Institute, London, S.W.7.

A **TEA RESEARCH INSTITUTE** was establd. by the Tea Industry in 1926. It is controlled by a Board of Management of 10 members. representative of various interests connected with tea. The Director of Agric. and Colonial Treasurer are also on the Bd. The objects of the Institute are the investigation of all problems relating to tea culture and manufacture and the publication of information relating thereto. Laboratory—St. Coombs, Talawakelle, Ceylon.

### 8. MALAYA

**THE FOREST RESEARCH INSTITUTE**, Kepong, Selangor, F.M.S. (Conservator of Forests, Research—T. A. Strong), was opened in 1929 and is maintained by the F.M.S. and the S.S. The building is surrounded by 990 acres of land in the process of being laid out as experimental plantations and arboretum. The Silviculturist advises and co-ordinates the silvicultural work done by the administrative officers and carries out independent research. The Forest Botanist deals with the botanical work of the Forest Dept., with emphasis on the Diptero-carpaceæ. Ecological work will also form part of his activities in the future. Timber research is in the hands of the Wood Technologist, who deals with wood structure, and the Officer-in-Charge of the Timber Research Laboratories, who is in charge of mechanical testing, durability, and wood preservation work.

Education of native subordinates and the local training of officers appointed from Europe and locally is dealt with at the Forest School by the Instructor.



There is a museum illustrating the timbers and minor products of the Peninsula, a collection of wood specimens authenticated by herbarium material, and an extensive herbarium with an unrivalled collection of the family Dipterocarpaceæ.

THE RUBBER RESEARCH INSTITUTE OF MALAYA, Post Office Box 150, Kuala Lumpur, Federated Malay States. (*Telegrams and Cables*—"Searching," Kuala Lumpur.) Estd. 1925 by the Plantation Rubber Industry of Malaya for the investigation of all problems relating to the cultivation of rubber, diseases and pests of rubber, the treatment of latex, and the preparation of raw rubber for the market. The Inst. is managed by a Board consisting of: the Director of the Institute (Chairman); a Financial Officer appointed by the High Commissioner, F.M.S.; the Director of Agriculture, S.S. & F.M.S.; 2 members appointed by the High Commissioner, F.M.S., to represent small-holders; and 5 other members appointed by the High Commissioner, F.M.S., from a panel nominated by Planting Associations. It is financed from the export duty on all raw rubber produced in, and exported from, Malaya. Organization: Director (H. J. Page), Secretary, Botanical, Chemical, Pathological, and Soils Divisions. Experiment Station (approx. 1332 acres), 16 miles from Kuala Lumpur. Facilities for the admission of private research workers by special arrangement with the Board.

London Advisory Committee for Rubber Research (Ceylon and Malaya), c/o The Imperial Institute, London, S.W.7.

*Publications.* *Journal*, Annual Report, Manuals, Special Bulletins, Leaflets, and Information Cards.

All communications should be addressed to the Director.

INSTITUTE FOR MEDICAL RESEARCH, Kuala Lumpur (*Director*—A. N. Kingsbury), scientific staff of 16. Extensions, completed in 1928, include a lymph preparation dept., Pasteur treatment rooms, etc. The compound, about 25 acres, contains animal houses, insectarium, etc. The Inst. is an integral part of the Malayan Medical Dept., and acts as the laboratory centre for the F.M.S. There is a branch laboratory in Perak. About half the time of the staff is devoted to researches on malaria, tuberculosis, leprosy, tropical typhus, and other diseases. There is a Division of Chemistry which undertakes biochemical and chemical investigations, both research and routine, for the Medical, Police, and other Government Departments. Results are pubd. in *Studies* and *Bulletins*. Space and facilities are available for visiting workers.

## 9. NEWFOUNDLAND

NEWFOUNDLAND FISHERY RESEARCH LABORATORY, St. John's. A 5-yr. period of research (now extended for a sixth year from April 1, 1936), financed jointly by the Empire Marketing Board and the Newfoundland Government, was begun in 1931, the aim being to survey the marine resources and introduce improved methods of processing of fishery products. The new Commission of Government now finances the laboratory through its Department of Natural Resources. In the

Laboratory, situated in a fishing outport near St. John's, equipment exists for the study of problems relating to canning, cod liver oil testing and refining, fish drying, fish-meal manufacture, general biological studies, etc., and there is a salt-water installation. Provision may be made for the accommodation of outside research workers on application being made to the Director (H. Thompson, M.A., Sc.D.). Telegraphic and Cable Address: Fishlab, Newfoundland. Publications: Reports of the Fishery Research Laboratory, Department of Natural Resources, Nfld.

*Note.*—The Laboratory was destroyed by fire in the spring of 1937. Its re-establishment is to be considered by the Government.

## 10. SUDAN

THE WELLCOME TROPICAL RESEARCH LABORATORIES, Gordon Memorial College, Khartoum, founded, equipped, and presented by Dr. Wellcome to the Sudan Govt.

STACK MEDICAL RESEARCH LABORATORIES, now under the ægis of the Sudan Medical Service with Dr. E. S. Horgan, B.A., M.D., B.Ch., B.A.O., as Assistant Director of Laboratory Services in charge.

Purposes: (a) To promote the study, bacteriologically, of tropical disorders, esp. the infective diseases of both man and beast peculiar to the Sudan, and to render assistance to the officers of health, and to the clinics of the civil and military hospitals.

(b) To aid experimental investigations in poisoning cases by the detection and experimental determination of toxic agents, particularly the obscure potent substances employed by the natives.

(c) To carry out chem. and bacteriol. tests in connexion with water, foodstuffs, and health and sanitary matters as may be found desirable.

(d) To undertake the testing and assaying of agric., mineral, and other substances of practical interest in the industrial development of the Sudan.

Private research workers admitted to the Labs. from time to time as far as accommodation permits. Application to the Assistant Director of Laboratory Services.

## 11. WEST INDIES—Trinidad

THE EMPIRE COTTON GROWING CORPORATION (*see also* App. II. 3 above) maintains a Research Station for the investigation of fundamental problems relating to the genetics and physiology of the cotton plant, at St. Augustine, Trinidad. Hd. of Genetics Dept., J. B. Hutchinson, M.A.; Hd. of Physiol. Dept., T. G. Mason, M.A., Sc.D., F.R.S. The Station is in close connexion with the *Imperial College of Tropical Agriculture*, where a great deal of research is going on into various aspects of tropical agriculture.

LOW TEMPERATURE RESEARCH STATION, Imperial College of Tropical Agriculture, for study of bananas, v. p. 800.

## 12. EAST AFRICA

*Nyasaland*

THE EMPIRE COTTON GROWING CORPORATION (*see also* Appendix II. 3 above) maintain a Cotton Experiment Station at Domira Bay on Lake Nyasa (Chief Officer—H. C. Ducker, B.Sc.), the principal activities of which are the breeding of improved strains suitable to local conditions in different parts of the Protectorate and the investigation of possible means of control of insect pests.

*Tanganyika (Mandated) Territory*

THE EAST AFRICAN AGRICULTURAL RESEARCH STATION, Amani, *via* Tanga (*Telegrams*—Director, Amani), opened in 1927, is a central research station maintained by the Governments of the East African Colonies and Dependencies (Kenya, Uganda, Tanganyika Territory, Zanzibar, Nyasaland, N. Rhodesia), and working on fundamental problems connected with East African crops in co-operation with the local Departments of Agriculture. The staff consists of the Director (A. G. G. Hill) and 8 scientific officers, as well as subordinate staff. The Station is situated at an altitude of about 3000 feet in the Usambara Hills in the Tanga Province of the Tanganyika Territory, near Muhesa on the Tanga-Moshi railway. In addition to laboratories, experimental plots, etc., a large estate is attached to the Station, on which, with the aid of a grant from the Colonial Development Fund, trials of coffee, cinchona, Derris, and Aleurites are being made on an extensive scale. The immediate environment of the Station is heavy tropical forest.

The Station is primarily devoted to the investigation of problems involving "long-range" and "wide-range" research under the heads of plant pathol., soil science, entomol., plant physiol. and plant genetics. It is not a teaching institution, but facilities exist for the accommodation of a limited number of unofficial research workers, on conditions to be arranged with the Director. A good library is maintained, with a wide range of periodicals dealing with agriculture and the related sciences. The Carnegie Corporation of New York have made a capital grant of £10,000 invested in the names of trustees for the permanent endowment of the library.

## C. INTERNATIONAL SETTLEMENT, SHANGHAI

HENRY LESTER INSTITUTE OF MEDICAL RESEARCH, Shanghai (*Director*—H. G. Earle, M.A., LL.D., M.B.). Founded in 1928 under a British Board of Trustees (the Lester Trust) by the late Henry Lester of Shanghai "for the study and teaching in the English language of medical science and surgery."

The work of the Institute is at present organized under three main divisions :

1. *Division of Clinical Research*, with which is associated a Dept. of Experimental Surgery, under Dr. H. Gordon Thompson, M.D., F.R.C.S.
2. *Division of Physiological Sciences*, including Physiology, Biochemistry, and Pharmacology, under Dr. Bernard E. Read, M.S., Ph.D.
3. *Division of Pathological Sciences*, including Bacteriology, Immunology, and Parasitology, under Dr. R. Cecil Robertson, M.D., M.R.C.P., D.P.H.

Facilities are provided for research in all branches of Medical Science. The staff are recruited mainly through the medium of Fellowships and Scholarships open to both Chinese and British candidates. It is hoped that voluntary workers and holders of other Fellowships for medical research will avail themselves of the opportunities presented by the Institute.

All communications to the Director, Henry Lester Inst., 1320 Avenue Rd., Shanghai, from whom full particulars may be obtained, or the London Secretaries, Lester Trust, Empire House, St. Martin's-le-Grand, E.C.1.

## IV

## PROFESSIONS AND CAREERS FOR WHICH UNIVERSITY STUDIES ARE A FITTING PREPARATION: CONDITIONS OF ENTRY OR OF QUALIFICATION FOR PROFESSIONAL DIPLOMAS OR MEMBERSHIP OF PROFESSIONAL INSTITUTIONS

## I.

## REGULAR COMMISSIONS IN H.M. FORCES FOR UNIVERSITY CANDIDATES

*Regulations issued with Army Orders* for September 1934, provide for Commissions being granted in the Cavalry, R.A., R.E., Royal Corps of Signals (not exceeding 4 annually), Infantry Royal Tank Corps, Royal Army Service Corps (not exceeding 11 annually), Ordnance Mechanical Engineers R.A.O.C., Army Educational Corps and in the Indian Army. Nominations of graduates who have certain prescribed qualifications are accepted by the Army Council from the following Universities: I. Oxford, Cambridge, London, Edinburgh, Manchester, McGill, Sydney, Western Australia, Toronto, Queen's, Kingston (Ont.), Alberta; II. The other universities of Great Britain, Northern Ireland, and the Univ. of Dublin. Univs in Group I. have established courses of military study and their candidates will be commissioned as senior to candidates whose qualifications are in other respects equal. The grant of graduate commissions in the Indian Army is limited to candidates from univs. in Great Britain, Northern Ireland, and the Univ. of Dublin. Commissions of accepted candidates will be antedated approximately 18 months according to qualifications as defined in a prescribed scale.

Among the necessary qualifications are: to be within the age limits 21-24, and to be unmarried.

The regulations giving full details of qualifications—general, academic, military, and physical—are obtainable from the Under-Secretary of State, War Office, London, S.W.1.

For the present the Army Council are prepared to accept 100 candidates a year from the Univs.

*Permanent Commissions in the General Duties Branch of R.A.F.* Permanent commissions in the General Duties Branch of the R.A.F. are granted to university candidates by the Air Council on the recommendation of their Universities. About 15 vacancies annually are available for candidates irrespective of the subject of their academic studies, and in addition about 5 vacancies annually limited to engin. candidates who have reached the standard of an Hons. degree in that subject. Officers

of the General Duties Branch are taught to fly and undertake flying, technical command, and general administrative duties of the R.A.F. They are given opportunities for widely differing types of study and of specialized employment.

Candidates must be recommended by a University in Great Britain or Northern Ireland and must have completed their degree course by the end of the university term in which they are recommended; they must be unmarried and within the age limits 20-25. Recommended candidates are invited to attend before a selection board which sits at the Air Ministry half yearly (normally in January and July). Candidates from Oxford, Cambridge, or London Univs. are recommended to the Air Ministry only after interview by a Board assembled at their Univ. Selected candidates are granted commissions as pilot officers as from the date on which they join a training unit, and, subject to the proviso that a commission will not be antedated to a date earlier than an officer's 20th birthday, the commissions will be antedated so as to give seniority as pilot officers from a date 15 months prior to the date of their effective gazettement to the R.A.F. Candidates who have graduated with either first- or second-class honours may also be granted an additional antedate of 6 months regulated by age, as in the case of the general antedate. In consequence of these privileges, candidates will normally become eligible for promotion to flying officer after 6 months. Promotion to the ranks of flight lieutenant and squadron leader is subject to qualification and suitability. Promotion to the rank of flight lieutenant will normally be made on completion of 4 years' seniority as a flying officer, but as a purely temporary measure to meet the requirements created by the R.A.F. expansion, promotion to flight lieutenant will be made on completion of 2 years' Flying Officer service; to the rank of squadron leader by seniority, but weighted by means of antedates so as to give earlier promotion to officers who have acquired specialist, staff and other service qualifications and to officers who are recommended as exceptionally suitable. The subjects of specialization are aeronautical engineering, signals (including wireless telegraphy), armament, photography, navigation and language study. Higher antedates for promotion are given to officers who have obtained advanced qualifications in aeronautical engineering, signals or armament. Promotion to wing commander and group captain and to air ranks is by selection.

Intending applicants should write for information to the Secretary of the Air Ministry; applicants from Oxford, Cambridge or London should also get into touch with the University Air Squadron. The conditions under which commissions are granted to graduates of certain recognized Universities in the self-governing Dominions can be obtained from the Government of the appropriate Dominion.

*Medical Branch of R.A.F.* Permanent commissions are given by selection from among officers holding short service commissions as Medical Officers. The number of permanent commissions is regulated by the number of higher posts so as to insure to all permanent officers a satisfactory career and prospects of promotion. Short service commissions are given for 3 yrs. (extensible with the consent of the Air Council

to 5 yrs.) on the recommendation of a selection board which sits at the Air Ministry. Candidates must be fully qualified medical practitioners under 28 (temporarily raised to 31) yrs. of age. Certain advantages are given to candidates holding resident appointments in civil hospitals. Application for further information should be made in writing to: The Secretary, Air Ministry, Adastral House, Kingsway, London, W.C.2.

## 2.

## ACCOUNTANTS, ACTUARIES, ETC.

INSTITUTE OF CHARTERED ACCOUNTANTS IN  
ENGLAND AND WALES

Incorporated by Royal Charter in 1880. *Address*—Moorgate Place, London, E.C.2.

Membership over 12,500.

The *Preliminary* examn. for persons wishing to become Articled Clerks is held in London, Manchester, Birmingham, and Newcastle-upon-Tyne usually about the middle of May and November. It embraces: English, Arith., Algebra and Geom., Geog., Hist., a foreign language (Latin, Greek, French, German, Italian, or Spanish), and one of the following—Advanced Maths., Physics, Chem., Geol., Stenography. Exemption is allowed to persons who have passed certain other examns., such as Oxford Responsions, Cambridge Previous, and London Matricn. Minimum age for articles is 16.

The *Intermediate* examn. for Articled Clerks who have served half of their term of service embraces Book-keeping and Accounts (including Partnership and Executorship Accounts and the Accounts of Limited Companies), Auditing and General Commercial Knowledge.

The *Final* examn. may not be taken till 2 yrs. after passing the Interim., but graduates articled for 3 yrs. only may take it 1 yr. after Interim. No person may enter for the Final unless he has served under Articles in England or Wales to a member for 5 yrs. (or, in the case of a graduate of a Univ. of the U.K., for 3 yrs.). It embraces Advanced Book-keeping and Accountancy, including Partnership and Executorship Accounts and the Law relating thereto, Accounts of Limited Companies, Auditing, Genl. Financial Knowledge (incl. Taxation, Costing and Foreign Exchanges), Company Law (incl. Liquidations), the Law Relating to Bankruptcy, Deeds of Arrangement, Receiverships and Trusteeships, Mercantile Law and the Law of Arbitration and Award.

The *Fee* for admission to any of the examns. is 2 gs., and for Certif. of Exemption 1 g. Thirty days' notice is required, and late entries will only be accepted up to 15 days on payment of a late fee.

No person may be admitted as *Associate* (fee 10 gs.) who has not passed the Final examn. The minimum age for admission is 21.

Any person who, being an Associate, has for 5 yrs. been continuously in practice as a Public Accountant may be admitted as *Fellow* (fee 10 gs.). Distinctive initials: A.C.A., F.C.A.

### THE SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS

Incorporated 1885. *Address*—Incorporated Accountants' Hall, Victoria Embankment, London, W.C.2. *Telegrams*—Incorpac, Estrand, London.

*Organization. Branches*: in Scotland, Ireland, South Africa, Australia, and Canada, and 21 District Societies throughout the U.K. Students' Societies are attached to all Branches and District Societies.

*Membership*. Over 7000, incl. women. Members, designated "Incorporated Accountants," are of two classes—Fellows (F.S.A.A.) and Associates (A.S.A.A.). Fellows must be either Accountants in Public Practice or Accountants to leading Public Bodies. Associates on election must be Accountants in Public Practice, Clerks to Accountants in Public Practice, or Accountants in the service of the Govt. or of Municipal Corporations.

*Articles*. Articles of Clerkship for 5 yrs. (reducible to 3 yrs. for approved Univ. Graduates) are a condition precedent to sitting for the professional Examns., except in cases of candidates of mature age having 9 yrs. approved *bona fide* professional experience, who are admitted to the Examns. without Articles upon conditions laid down in the special Bye-laws.

*Examinations and Fees*. The Examns. are three: the *Preliminary* (fee, £2 : 2s.), to be passed before entering into Articles of Clerkship; the *Intermediate* (fee, £2 : 12 : 6), to be taken at the expiration of 2 yrs. of the term of Articles; and the *Final* (fee, £3 : 3s.), to be taken during the last yr. of Articles. Hons. Certifs., Exhibitions, Prizes, and Medals are awarded. The Examns. are held during May and Nov. in London, Manchester, Cardiff, Leeds, Dublin, Belfast, Glasgow, Cape Town, Johannesburg, and Durban. Exemption from the Prelim. Examn. (fee, £1 : 11 : 6) obtainable upon production of certain Educational certifs.

*Publications*. *Yearbook*, 3s.; *Journal*, monthly, 12s. 6d. p.a.; *Examn. Questions*, 1s.

### THE LONDON ASSOCIATION OF CERTIFIED ACCOUNTANTS

Founded 1904, and Incorporated 1905. *Address*—50 Bedford Square, London, W.C.1.

The Association has 31 Branches and District Societies and also has Local Representatives in various countries overseas. Each Branch or District Society has a Students' Society or Section attached thereto which enables registered students to participate in and benefit from the educational work of the Assn.

*Membership*. About 3600, including women. In addition, some



3000 students on the registers. Open to those engaged in accountancy work and only obtainable by examn. and by satisfying the other conditions as to experience and character. Articles are not a necessary condition.

*Examinations.* Preliminary, Intermediate, and Final, open to both sexes ; held in June and Dec. each yr. The Prelim. Examn. is a test of general education, from which exemption may be obtained by those who have passed certain recognized School Examns. The Intermed. and Final are in professional subjects. The passing of the examns does not by itself confer the right of admission to membership.

Designation of members " Certified Accountant " ; Fellows, F.L.A.A. Associates, A.L.A.A.

*Publications.* *Yearbook*, 3s., post free. *Journal* (monthly), 7d. per copy or 7s. p.a., post free. *Examination Question Papers*. Brochures on matters of professional interest.

### CHARTERED ACCOUNTANTS OF SCOTLAND

The Society of Accountants, Edinburgh	$\left. \begin{array}{l} \text{incorp'd.} \\ \text{by Royal} \\ \text{Charter} \end{array} \right\}$	1854.
The Institute of Accountants and Actuaries, Glasgow		1855.
The Society of Accountants, Aberdeen		1867.

Secretary of the General Examining Board—D. Norman Sloan, C.A.,  
142 St. Vincent St., Glasgow. *Telegrams*—Loan, Glasgow.

A 5-yr. apprenticeship with a Chartered Accountant of Scotland is required (reduced to 4 for graduates of a Univ. in G.B. or Ireland—in the case of Glasgow, Northern Ireland only). Minimum age for apprenticeship, 17 years. Fee of £10 : 10s payable on registration of Indenture of Apprenticeship, to Society or Institute to which apprentice's master belongs. Persons desirous of serving an apprenticeship must pass an examn in Engl., Higher Maths., a language other than English ; and a 4th subject, of the standard of the Scottish Entrance Board's examns. Any person whose claim for Preliminary Qualification is based on Passes other than those of the Scottish Univs. Entrance Examns. or the Leaving Certif. Examns. of the Scottish Education Dept. must produce a Certif. of Fitness from the Scottish Univs. Entrance Board, 81 North St., St. Andrews, such as is normally issued to students about to enter upon a Course qualifying for graduation. Such a Certif. will only be accepted by the General Examining Board provided that it is endorsed to the effect that the applicant's qualifications include a Pass in Higher Maths. or a Pass equivalent thereto. The Board's examns. consist of an Intermed. Examn. and a Final Examn. The Intermed. Examn. must be taken in 2 divisions during the period of apprenticeship, fee 1 guinea each division, comprising Arith. ; Algebra and Statistics ; Book-keeping and Accounting, and must be passed during the last 4 years of apprenticeship (except in the case of short period Indentures for which see Syllabus). The Final examn. must be taken in two divisions, the 2nd being taken after the expiry of the apprenticeship. Fees, 1 g. and 2½ gs. Certain classes must be taken at one or other of the local univs.

before the apprentice presents himself for either of the two divisions. This examn. embraces appropriate Scottish Law, Book-keeping and Accounting, Insolvency, Trust, Income Tax, Cost, and other Accounts. The examns. are held in May and Dec. Distinctive initials: "C.A." Detailed syllabus to be had from Sec.

### THE INSTITUTE OF COST AND WORKS ACCOUNTANTS

Incorporated 1919. *Address*—23 Queen Square, London, W.C.1.

Among the objects are: (1) To improve the professional status of Cost Accountants, and by means of examns. to test the skill and knowledge of persons desiring to enter the profession, and to issue qualifying certs.; (2) To improve the facilities at present available to persons entering the profession for acquiring the necessary training and education; (3) To exercise professional supervision over the members of the Inst., and to frame and establish rules for the observance in all matters pertaining to professional practice; (4) To hold conferences and meetings for the discussion of professional subjects, and to collect, collate, and publish information of service or interest to members of the profession.

*Membership* of the Inst. by examn. is granted to candidates who have passed (a) the Preliminary, (b) the Intermediate, (c) the Final Examn. and have had at least 3 yrs.' practical costing experience. Exemption from the Preliminary may be granted to graduates of any Univ. in the U.K. and to persons who have passed certain recognized School examns.

*Examination Fees*: Preliminary, 1 guinea; Intermediate, Pts. I. and II., 1 g. each; Final, 2 gs. *Membership Fees*: Associates, 2 gs. annually; Fellows, 3 gs. annually.

Distinctive initials: A.C.W.A., F.C.W.A.

### THE INSTITUTE OF COMPANY ACCOUNTANTS

Incorporated 1929. *Address*—Company Accountants' House, 11 Portland Rd., Edgbaston, Birmingham.

Examinations qualifying for membership, Prelim. (fee 1 g.), Inter. (fee 2 gs.), Final (fee 3 gs.) are held in London and various provincial centres in May and Nov. The Prelim. Examn. includes English Grammar and Composition, Arith., English Hist. or Geog., Maths.—Algebra and Geom., and one of Latin, French, Sci., Econ. or Spanish. The following certs. are accepted in lieu of the Prelim. Examn.: (1) A Matricn. Certif. of any British Univ. (2) A School Certif. issued by one of the following bodies provided that a Pass "with credit" has been obtained in Maths.: Oxford and Camb. Schools Examn. Bd., Oxford Delegacy for Local Examns., Camb. Local Examns. Syndicate, Univ. of London (Genl. School Examn.), Jt. Matricn. Bd. of the Northern (English) Univs., Bristol and Durham Univs., Central Welsh Bd. of Intern. Edn. (3) Scottish Edn. Dept. School Leaving Certif. provided that a "pass" has been obtained in Maths.

With the permission of the Institute, Registered Students may and are strongly recommended to attend Univ. courses usually in the Faculty of Commerce for some subjects of the Intern. and Final Examns. A

pass in the internal examn. of the Univ. in those subjects will exempt from the Institute's examns. in the same subjects, subject to satisfactory report concerning students from the Univ. authorities.

Members are of two grades, Fellows (F.I.A.C.) and Associates (A.I.A.C.). Both use the designation "Company Accountant (Inc.)." Certifs. of membership are issued.

Annual subscriptions : Fellows, 4 gs., Associates, 3 gs.

*Publications.* *The Company Accountant ; The Registered Student.*

### INSTITUTE OF ACTUARIES

Established 1848. Incorporated by Royal Charter, 1884. *Address*—Staple Inn Hall, Holborn, London, W.C.1.

A Prelim. Examn. qualifying for admission to Studentship is held in Jan. and July. The main Examns. are held in May of each year, or at such other times as may be prescribed by the Council. Candidates must give 4 weeks' notice. Applications for examn. outside the U.K. must reach the Hon. Secretaries 10 weeks before the date of the Examns.

The standard of the Maths. in the Preliminary Examn. lies between the standards required in the corresponding subjects (a) for the Inter-med. Examn. of the Univ. of London and (b) for College Entrance Scholarship Examns. at Oxford and Cambridge. Applications for admission to the Prelim. Examn. must be made on the prescribed form to be obtained from the Asst. Secretary.

Candidates for *Associateship* must be "Students" and have passed Pts. I., II., III. and either Pt. IV. or Pt. V. of the Syllabus. Candidates for *Fellowship* must be Students or Associates and pass the 6 Parts of the Syllabus. *Examn. Fees*, 1 to 3 gs. according to Part or portion of Part taken. Distinctive initials : A.I.A., F.I.A.

### FACULTY OF ACTUARIES IN SCOTLAND

Incorporated by Royal Charter, 1868. *Address*—23 St. Andrew Square, Edinburgh.

Examinations—Pts. I. (A and B), II., III., IV. (A, B, C).

Anyone desirous of prosecuting his studies in connexion with the Faculty must be enrolled as a student. Application to be made on prescribed form with recommendation of two Fellows and be subject to approval of the Council. The applicant must have passed either : (i.) The Scottish Leaving Certif. Examn., 3 subjects at least, including English and Maths., having been passed on the Higher Standard, or a sufficient number of subjects, including Maths. on the Higher Standard, to obtain an attestation of fitness certif. for entry into a Scottish Univ. ; or (ii.) the Prelim. Examn. for Scottish Univs. provided that passes in English and Higher Maths. have been obtained ; or (iii.) such other Examns. as in the opinion of the Council are equivalent ; or shall produce such other evidence of general education as may be accepted by the Council from time to time after individual enquiry.

*Fees.* Students, Entrance, 1 g., annual, 10s. 6d. (1 g. after passing Pt. I. of the Examns.). Fellows and Associates, annual subsn., 3 gs. Examns., 1½ to 3 gs.

### THE CHARTERED INSURANCE INSTITUTE

Founded 1897, and incorporated by Royal Charter, 1912. *Address*—20 Aldermanbury, London, E.C.2. Membership consists of the members of Local Insurance Insts., of which there are 39 (with 32 Centres) in the U.K. There are also 12 affiliated Institutes in Toronto (2), Adelaide, Melbourne, Sydney, Perth, Cape Town, Johannesburg, Hobart, Launceston, Montreal, and Wellington. Examns. qualifying for Associateship (A.C.I.I.) and Fellowship (F.C.I.I.) are held in March. Journal published annually.

### 3.

## AGRICULTURE, DAIRYING, HORTICULTURE, ETC.

### NATIONAL AGRICULTURAL EXAMINATION BOARD

The Board was appointed by the Royal Agricultural Society of England (16 Bedford Sq., London, W.C.1) and the Highland and Agricultural Society of Scotland (8 Eglinton Crescent, Edinburgh).

An examn. in the *Science and Practice of Agriculture* is held annually for the National Diploma in Agr. (N.D.A.). Qualifications for admission: a certificate from a recognized Agr. College that his attainments in General Bot. and Chem., Geol., Physics, and Mechanics justify the candidate's admission; or evidence of (a) having passed the 1st B.Sc. or Interm. examn. in Science of a British Univ.; or (b) present a School Certif. awarded by a British Univ. Examn. Board and produce evidence that he has continued his study of Science for at least a year and has obtained a certif. in Physics, Chem., and Bot. at the Higher Certif. examn. of a British Univ. Examn. Bd.; or (c) Higher Leaving Certif., including Chem. and Bot., of the Scottish Ed. Dept. Before the first three written papers are taken, candidates must also produce evidence of having resided on a farm for a period (or 2 periods) covering a complete year of farming operations. The subjects of the written papers are Practical Agr.; Farm Machinery and Implements; Land Surveying and Farm Buildings; Agr. Chem., Bot., Book-keeping, and Zool.; Vet. Sc. They may be taken all at one time, or 3, 4, or 5 in one yr. and the remainder at one examn. within next two yrs. *Fee* (non-returnable) for entire examn., 6 gs.

### NATIONAL DAIRY EXAMINATION BOARD

The Board consists of representatives of the Royal Agricultural Society of England, the Highland and Agricultural Society of Scotland, and the British Dairy Farmers' Association. *Address*: 16 Bedford Square, London, W.C.1.

An examn. in the *Science and Practice of Dairying* is held annually in England and Scotland for the Nat. Dipl. in Dairying (N.D.D.).

Qualifications for admission : (a) a Diploma course in the subjects of the examn. covering two academic yrs., including at least 6 session months' instruction in practical dairy work at an approved dairy training institution ; also (b) at least 6 months on an approved dairy farm (not concurrent with period mentioned under (a)). Candidates have the option of : (a) Taking the whole Examn. at one time ; or (b) Taking the Examn. in two parts. A candidate taking the Examn. in two parts must take the following subjects at the first sitting : Dairy Farming, Dairy Hygiene, Principles of Dairying, Dairy Factory Management and Dairy Engineering, Practical Cheesemaking and Butter-making ; the remaining 3 papers, Chem. and Physics, Dairy Bacteriol., and Dairy Book-keeping, to be taken at the Examn. in the following year.

The examns. are held in England and in Scotland. A candidate may not enter for the examns. in both countries.

*Examn. papers of past years* (6d. a set) and a detailed syllabus of subjects of examn. are obtainable from the Secretary.

### HORTICULTURE

The examns. for the National Diploma (N.D. Hort.) were established in 1912 by the ROYAL HORTICULTURAL SOCIETY, Vincent Square, London, S.W.1. They are usually held in May and June in London and elsewhere. The *Preliminary* examn. is open to candidates who have received a sufficient general education, who are at least 21 yrs. of age and have served at least 4 yrs. in a public or private garden or nursery, or taken a 4 yrs.' course in an approved Horticultural Institution, or spent 4 yrs. partly in the former and partly in the latter. The *Final* examn. is open to candidates who have passed the preliminary examn. and have been regularly employed in the practice of Horticulture for at least 6 years. The National Certificate in elementary Horticultural Practice was established in 1937 especially for students at Farm Institutes. Other examns. held by the Society every yr. are the Genl. Examn. in Horticulture (for Junrs. and Senrs.) ; the Teachers' Examn. in School and Cottage Gardening (Prelim. and Advanced), and the Examn. for the British Floral Art Diploma (estab. in 1933).

Fuller particulars and entry forms from The Secretary, Royal Horticultural Society, Vincent Square, London, S.W.1.

### NATIONAL POULTRY DIPLOMA EXAMINATION BOARD

This Board, formed by the National Poultry Council, includes representatives of the Ministry of Agriculture, the Dept. of Agr. for Scotland, East Anglian Institute of Agr., Leeds Univ., S.E. Agr. College (Wye), National Institute of Poultry Husbandry, Reading Univ., School of Agr., Cambridge, Midland Agr. Coll., West of Scotland Agr. Coll., Lancashire Co. Farm Inst., Studley Coll., and several other bodies. The Chairman is P. Hedworth Foulkes, B.Sc., F.E.S., late Principal of Harper Adams Agr. College, Newport, Salop. It holds examns. annually, and awards a National Diploma in Poultry Husbandry (N.D.P.)

and a National Certificate in Poultry Practice, which is intended to serve the needs of the smaller instns.

Qualifications for admission to the Diploma examns. (fee, 1st yr., 4 gs.; 2nd yr., 4 gs.):—i. Training in Poultry Husbandry in a recognized Teaching Instn. for at least 2 years; ii. Experience on an approved Poultry Farm for at least a year. The subjects of the examn. for the 1st year are Biol., Book-keeping, Building Construction, Chem., and Physics, and for the 2nd year, Applied Anat., Physiol. and Pathol., Applied Chem., Applied Building Construction, Poultry Husbandry to include Applied Book-keeping (Costings), Practical Test in Poultry Husbandry. Exemption from the 1st year's training and examn. will be granted to: (1) Univ. graduates in Agric., Hortic., or Dairying; (2) Holders of the National Diploma in Agric., Hortic., or Dairying and such other Diplomas in these subjects as may be accepted by the Board. Next examn. 12-19 July, 1938. Qualifications for admission to the Certif. examns. (fee 5s.):—Training in Poultry Husbandry for at least one acad. yr. in a recognized Teaching Instn. The subjects of the examn. are Poultry Practice, Poultry Accounts, Construction of Poultry Houses and Appliances.

Applications receivable by the Secy., National Poultry Council, 73 Southampton Row, London, W.C.1.

#### 4.

### ROYAL INSTITUTE OF BRITISH ARCHITECTS

Founded 1834. Incorporated by Royal Charters in 1837, 1887, 1909 and 1925. *Address*—66 Portland Place, London, W.1. *Telegrams*—Ribazo, Wesdo, London.

#### BOARD OF ARCHITECTURAL EDUCATION

The recommendations of the R.I.B.A. in regard to preliminary and professional education imply a course of professional training in schools occupying at least five years, during the last 2 yrs. of which the student would be working part-time in an architect's office—the training being kept under the supervision of the Board of Architectural Education of the R.I.B.A. or its delegates during the whole term.

*Enrolment as Probationer, R.I.B.A.* (fee 4 gs.). Candidates must produce evidence of good general education. This evidence, except in very special cases, must be (a) a certif. from one of the Schools of Archit. recognized for exemption from the R.I.B.A. examns., to the effect that the applicant has passed, or has received exemption from the School Entrance Examn., or (b) a certif. of having passed one of the public examns. recognized by the R.I.B.A. for the Probationership. All applicants must submit drawings showing that they possess some knowledge of Drawing, except (a) when the applicant submits a certif. of having passed or received exemption from the Entrance Examn. to one of the Recognized Schools of Archit., or (b) when the applicant submits a certif. of having passed one of the recognized public examns. with

credit in Drawing or Art. Candidates who are unable to submit certifs. of general education in accordance with the regns. may make special applications, which will be considered on their merits by the Board of Architectural Education. A list of the Recognized Schools of Archit. is given in the following paragraphs, and particulars regarding them are given in the "Explanatory Pamphlet on Examns.," see below.

The *Intermediate* examn. (fee, 5 gs.) is held in May or June and Nov., and is open to Probationers of at least 19 yrs. of age. It tests their progress while engaged as pupil, improver, or asst. in an office, and passing it qualifies for election as *Student*, R.I.B.A. Exemption from this examn. (but not from the fee) may be granted to Probationers who have attended the necessary courses at one of the following schools: Architectural Assocn., London; Northern Polytechnic, London; The Polytechnic, Regent St., London; Birmingham School of Arch.; School of Arch. King's Coll. (Univ. of Durham); Leeds School of Arch.; The Welsh School of Architecture, Cardiff; Royal West of England Academy, Bristol; The Leicester Coll. of Arts and Crafts; The School of Art, Nottingham; The Municipal School of Arts and Crafts, Southend-on-Sea; Aberdeen School of Arch.; Robert Gordon's Tech. Coll., Aberdeen; Dundee Tech. Coll. and School of Art; Edinburgh Coll. of Art; Glasgow Sch. of Arch.; Univs. of Cambridge, Liverpool, London, Manchester, Sheffield, Nat. Univ. of Ireland (Dublin Univ. Coll.), McGill, Manitoba, Toronto, Melbourne, Sydney, Adelaide, Auckland Univ. Coll., Cape Town, Witwatersrand; other instns.: Sydney Tech. Coll., Gordon Inst. Tech., Geelong, Aust.; Melbourne Tech. Coll.; Bombay School of Art. The R.I.B.A. desires that students within reach of these Univs. and Schools should avail themselves of the opportunities thus afforded rather than submit themselves for the examn. without such recognized training.

The *Final* examn. (fee, 6 gs.) for the *Associateship*, R.I.B.A., is held in July and Dec., and is open to Students of at least 21 yrs. of age. Before admission a candidate must submit for approval designs in answer to 4 problems set by the Board. Exemption from the Final examn. is given to Students who have completed successfully a Dip. or Degree course covering at least 5 yrs. at the Arch. Assn. London, School of Arch., The Polytechnic, Regent St., London, Birmingham School of Arch., Leeds School of Arch., Liverpool Univ., London Univ., Manchester Univ., School of Arch., King's Coll. (Univ. of Durham), Sheffield Univ., Aberdeen School of Arch., Robert Gordon's Tech. College, Aberdeen, Glasgow Sch. of Arch., Edinburgh Coll. of Art, Welsh School of Architecture, Cardiff; Univs. (Overseas): McGill, Manitoba, Toronto, Melbourne, Adelaide, Sydney, Cape Town, Witwatersrand, Auckland Univ. Coll.; Sydney Tech. Coll.

A *Special Final* examn. (fee, 10 gs.) for the *Associateship* is held in July and Dec. It is open to Architects in practice and Assts. not less than 30 yrs. of age whose applns. are approved by the Board.

Candidates for election to the *Licentiate* Class must be British subjects and have been entered on the Register of Registered Architects. They must have attained the age of 30 yrs., and either (a) have been engaged as principals for at least 5 successive yrs. in the practice of

Arch., or (b) have been engaged for at least 10 successive yrs. in the practice or the study of Arch.

A *Licentiate* (L.R.I.B.A.) is a fully qualified corporate member, and is entitled to the designation "Chartered Architect."

Examns. (fee, 3 gs.) qualifying for candidature as *District Surveyor* in London or *Building Surveyor* under local authorities are held periodically.

In July 1931 the Architects (Registration) Act, 1931, was passed, establishing the Architects Registration Council of the United Kingdom, the duty of which is to set up and maintain a register of architects entitled to be registered under the Act, with power to remove the names of all registered persons who apply for removal, and the names of all those who shall have died. The Council also have power to remove the name of any registered person convicted of a criminal offence, or, on the report of a special committee appointed for the purpose, to remove the name of any "person . . . guilty of conduct disgraceful to him in his capacity as an architect." Only registered persons will be entitled to use the name, title, or style of "Registered Architect." Under the Act a Board of Architectural Education and an Admission Committee are appointed annually by the Council, both constituted in accordance with Schedules to the Act.

R.I.B.A. *Allied Societies* and branches thereof exist in 62 towns in the U.K. and Irish Free State; also in Canada at Edmonton, Halifax, Montreal, St. John, Saskatoon, Toronto, Vancouver, Winnipeg; in Australia at Adelaide, Melbourne, Brisbane, Sydney, Hobart, Perth; in New Zealand at Auckland, Christchurch, Dunedin, Hamilton, Invercargill, Napier, Hawera, Wellington; in Africa at Bloemfontein, Cape Town, Durban, Johannesburg, Nairobi, Salisbury; and at Bombay, Singapore, and Kuala Lumpur.

The Royal Institute of British Architects offers a number of Prizes and Studentships, particulars published annually in the *R.I.B.A. Prizes and Studentships Pamphlet*, price 1s. See also under *British School of Archaeology* at Athens, p. 847.

*Publications* include the *Kalendar*, 3s. 9d. and postage, containing, *inter alia*, a historical sketch, regns. for international and other competitions, and information about the allied societies. *Journal*, in 20 numbers annually, 1s. 6d. each. *Explanatory Pamphlet on Examns.* 1s. and postage. *Past Examns. Questions*, price 1s. and postage.

## 5.

### THE AUCTIONEERS' AND ESTATE AGENTS' INSTITUTE OF THE UNITED KINGDOM

Founded 1886. Address—29 Lincoln's Inn Fields, London, W.C.2.

The Preliminary Examn. is held in Jan. and July, and the Interm. and Final Examns. in March and July. The Jan. and March Examns.



are held in London and the following centres: Birmingham, Bristol, Cardiff, Manchester, Newcastle-upon-Tyne, Belfast, but the Prelim. and Professional Examns. in the Summer are held only in London. Entries for the Jan. and March Examns. must reach the Secretary by the end of preceding Oct., and for the Summer Examns. by the end of May.

The Preliminary (fee, 1½ gs.) is for the grade of *Student Member*, the Intermediate (fee, 3 gs.) for the grade of *Licentiate*, and Final (fee 4 gs.), or the Direct Final (fee, 5 gs.), for the grades of *Associate* (A.A.I.) and *Fellow* (F.A.I.).

The subjects of the *Preliminary* are English, Arith., Algebra, Geometry, Mod. English Hist., and one only of the following *optional subjects*: French, Latin, German, Modern Geog., Gen. Knowledge. Exempting examns.: Matricn. or School Certif. Examns. of Univs. in the U.K., Prelim. of Law Soc., Chartered Surv. Instn., Inst. C.A., Soc. of Inc. Acctts. and Audtrs. and the Senr. Certif. Examn. of the Coll. of Preceptors.

The *Intermediate* is open to articled clerks in approved offices, ordinary assistants who have had at least a year's professional experience in an approved office, and certain others. Minimum age, 17. The subjects are Book-keeping, Mensuration, Valuation Tables, Law of Landlord and Tenant, Dilapidations and Fixtures, Building Construction, and 1 out of 4 other subjects. *This examination is open to those who have passed or been exempted from the Institute's Preliminary Examn.* unless the candidate is 25 years of age or over, when he is exempt from the Prelim. but is required to take the 2 additional subjects of English and Arithmetic at the Interm. Examn.

The *Final* is open to persons who have passed or been exempted from the Interm., minimum age of entry 19; the *Direct Final*, to persons not less than 30 yrs. of age who fulfil certain conditions as to practical experience. The subjects of the Final are: Valuations, Law of Vendor and Purchaser, Elements of Law of Receiverships and Mortgage. Arbitrations and Compulsory Purchase, Sanitation, Law and Practice of Rating and Taxation, Report Writing, Specifications and Estimates for Repairs to Buildings, and one out of a list of 6 other subjects. The Direct Final, in addition to the 9 subjects of the Ordinary Final Examn., includes also the following from the Interm. list: Bookkeeping, Mensuration, and Law of Landlord and Tenant.

*Exemptions.* A candidate who has passed the Interm. Examn. for the B.Sc. (Estate Management), Univ. of London, will be exempted from certain subjects in the Interm. Examn. If he has passed the Final of the B.Sc. Examn. (Est. Management), or holds the B.A. degree in Estate Management of Cambridge Univ. or the B.A. degree in Agric., together with the Dip. in Rural Econ. of Oxford Univ., he will be exempted from the Interm. and Final Examns. of the Institute entirely. The holder of any other degree of a recognized British Univ. is exempted from the Interm. entirely, but is required to take the *whole* of the ordinary Final Examn.

Minimum age for admission to Student Member grade, 16; Licentiate grade, 17; Associate grade, 21; Fellow, 25. Candidates must also fulfil specified conditions as to practical experience.

*Publications*: Regns. and Syllabus and particulars of Prizes and *Scholarships* of the value of £20 p.a. for 3 yrs., post free. Last Examn. Questions, Preliminary Examn., 1s.; Professional Examns., 2s.

## THE COLLEGE OF ESTATE MANAGEMENT

Incorporated by Royal Charter. *Address*—35 Lincoln's Inn Fields, London, W.C.2.

Instruction—daytime, evening, and by postal tuition—in preparation for the examns. of the Univ. of London (B.Sc. degree), the Chartered Surveyors' Instn., the Auctioneers' and Estate Agents' Institute, the Land Agents' Society and the Instn. of Civil Engineers. Principal, B. W. Adkin, F.S.I., F.A.I., F.R.E.S., F.R.E.F.S. Three Directors of studies and 50 other Lectrs. and Instrs. A Travelling Scholarship, maximum value £300 for 1 yr., is offered by the College, *see* Appendix II. 3.

## THE LAND AGENTS' SOCIETY

Incorporated by Royal Charter. *Address*—21 Lincoln's Inn Fields, London, W.C.2.

Qualifications for (1) Fellowship: Having passed the Society's examns. and being a genuine manager of a certain acreage and having been professionally employed for at least 5 yrs. (2) Qualified Associateship: Having passed the Society's examns. and having had at least 2 yrs.' practical experience other than as a pupil paying a premium. (3) Associateship: Being a Pupil with a Land Agent who is, or is qualified to be, a Fellow or Qualified Associate.

(Agents, sub-agents and assistants who may be eligible from the practice point of view for Fellowship and Qualified Associateship, except that they have not passed the Society's examns., may be elected to Associateship on giving an undertaking to pass those examns. within stipulated periods.)

Examinations in two Parts annually in March, in London and Edinburgh. Entries up to Dec. 1. Fee for each Part, 4 gs. Part I. comprises Agric. (Elementary), Surveying, Agr. Law (Elem.), Taxation and Charges on Land, Building Constn., etc., Forestry, Book-keeping. Part II. is an advanced examn. to test practical knowledge. Candidates 35 years of age and over, with seven years' responsible experience, are permitted to sit for Part II. as a Direct Fellowship Examination. Syllabus and previous Examn. Papers may be obtained from Secretary.

Special Committee in charge of Employment Register nominates members previously interviewed for land agency appointments referred to Society.

*Journal*, published monthly, 2s. 6d. to non-members.

## 6.

## THE INSTITUTE OF BANKERS

Founded 1879. *Address*—11 Birchin Lane, E.C.3. Local centres in Bath, Bedford, Birmingham, Blackpool, Bournemouth, Bradford, Brighton, Bristol, Cambridge, Cardiff, Channel Islands, Chatham, Chester, Cornwall, Derby, Eastbourne, E. Kent, Exeter, Gloucester, Grimsby, Guildford, Huddersfield, Hull, Ipswich, Leeds, Leicester, Lincoln, Liverpool, Middlesbrough, Mid-Lancs., Mid-Wales, Newcastle-on-Tyne, Northampton, N. Staffs, N. Wales (2 Centres), Norwich, Nottingham, Oxford, Peterborough, Plymouth, Portsmouth, Reading, Richmond and Kingston, St. Albans, Sheffield, Southampton, Southend, Swansea, Tunbridge Wells, Yeovil, York. Subscription,  $\frac{1}{2}$  to 2 gs. p a.

Qualifications for election to Associateship: (a) 10 yrs.' service in a Banking Establishment, or (b) passing approved exams., or (c) being a graduate of a University and on the staff of a Banking Establishment. Ordinary members are elected from the staff of any Banking Establishment on the Council's list. Associates by examination may add to their names or signatures, "Cert. A.I.B."

*Examinations*, open to members only, (i) The Associate Examn., held in April in London, the provinces, and abroad. Latest entry date—Feb. 15.\* Subjects: Practice and Law of Banking, Economics, Engl. Compn., Comm. Geog., Foreign Exchange, Book-keeping and Accountancy; optional—French, Spanish, Italian, Portuguese, German. The examn. is divided into two parts extending over a period of not less than 3 yrs., Pt. II. to be taken not less than 1 yr. from Pt. I. For Examns. *exempting* from Part I. in Practice and Law of Banking, reference should be made to the Institute. (ii.) For the Diploma in Executor and Trustee Work regulations are similar to those for the Associate examn. Subjects. Pt. I. English Composition, Practice and Law of Banking, Book-keeping, General Principles of Law, Death Duties and Probate Practice. Pt. II. Theory and Practice of Investment, including the Practice of the Stock Exchange, Law Relating to Wills, Executors, Administrators, and Trustees, Trust Accounting, Elements of the Law of Real Property and Elementary Conveyancing, Practical Trust Administration. (iii.) For Diploma in French, Spanish, Portuguese, Italian, and German, held annually in the spring. *Scholarships* entitling holder to spend 2 months in a bank abroad are awarded in connexion with the Diploma exams.

*Lectures* or courses of lectures in Banking and kindred subjects are given during the winter in London and at all the Local Centres. *Library* (lending), over 10,000 books and periodicals. *Journal*, monthly, Oct. to June 1s. 6d. (15s. p.a., post free). *Examn. Questions*, 6d. each yearly set. The Examn. Syllabuses may be obtained on application to the Secretary.

\* For members outside Europe: January 31.

## 7.

INSTITUTE OF CHEMISTRY OF GREAT BRITAIN  
AND IRELAND

Founded 1877. Incorporated by Royal Charter, 1885. *Address*—30 Russell Sq., London, W.C.1. *Library*, 4650 vols. *Laboratories. Appointments Registers* of Fellows, Associates, Registered Students, and Lab. Assts.

*Studentship.* Minimum age, 16. Annual subs., 10s. A candidate must have passed an approved examn. of matricn. standard and must be undergoing a course of preparation and training for the practice of Chemistry in a teaching institution recognized by the Council, or under a Fellow of the Institute in a lab. or works approved by the Council.

The institutions recognized for training candidates for the exams. of the I.C. are the following: University Coll., King's Coll., Imperial Coll., Birkbeck Coll., Bedford Coll., Royal Holloway Coll., Queen Mary Coll., Battersea Polytech., Northern Polytech., Sir John Cass Tech. Inst. (evg.), Chelsea Polytech., West Ham Munic. Coll., Woolwich Polytech. (the foregoing connected with the Univ. of London); The Polytechnic, Regent St.; Armstrong Coll., Newcastle, and Durham laboratories; Constituent Colls. of Wales and of N.U.I.; all other Univs. in the U.K.; Univ. Colls., Exeter, Hull, Leicester, Nottingham, Southampton; Belfast, Dublin, Univ. Coll. (N.U.I.), Birmingham Cent. Tech. Coll., Blackburn Munic. Tech. School, Bradford City Tech. Coll., Brighton Tech. Coll., Derby Tech. Coll., Doncaster Tech. Coll., Gillingham, Medway Tech. Coll., Halifax Tech. Coll., Huddersfield Tech. Coll., Hull Tech. Coll., Leeds Tech. Coll., Leicester Tech. Coll., Liverpool Cent. Tech. Coll., Loughborough Tech. Coll., Manchester Tech. Coll., Middlesbrough, Constantine Tech. Coll., Rutherford Tech. Coll., Newcastle-on-Tyne, Portsmouth Munic. Coll., Preston Harris Inst., Salford Royal Tech. Inst., Wigan Mining and Tech. Coll., Cardiff Tech. Coll., R. Tech. Coll., Glasgow, Heriot-Watt Coll., Edin., Paisley Tech. Coll.; Overseas Univs.—McGill, Queen's (Ontario), Toronto, Adel., Melb., Syd., W. Aust., N.Z., Cape Town, South Africa, Witwatersrand. Coll. Sc. Transvaal, Stellenbosch.

The compulsory subjects of training are Chem., Physics, Maths., and one other optional Science subject, the course in Chem. extending over 4 yrs. Evening class training is recognized if the candidate is engaged in the practice of Chem. during the day and attends a systematic course previously approved by the Council extending over 5 yrs., and is recommended by his teachers. Evidence of having passed the class or other approved exams, is required.

The A.I.C. examn. in General Chemistry (inorganic, organic, and physical), fee, 5 gs., occupies 6 days, including 4 days of practical Chem., and is open to students who (i.) have completed the prescribed training, or (ii.) have obtained a degree including the necessary subjects,

and worked for a further yr. in a recognized Univ. or Coll., or for 2 yrs. with a Fellow in a lab. or works approved by the Council, or (iii.) have been otherwise trained to the satisfaction of the Council and been engaged in the study and practice of Chem. for 8 yrs. The A.I.C. may be granted (without examn.) to graduates with 1st or 2nd Class Hons. in Chem., or holders of diplomas recognized as equivalent, who have completed a 4 yrs.' course in the requisite subjects or a 3 yrs.' course supplemented by approved experience in laboratories or works. Applications from candidates having diplomas of Dominion or foreign Univs., or of a specialized character, will be decided on their merits. Persons of at least 30 yrs. of age who have had 12 or more yrs.' experience of chemical work may be admitted to a modified examn. Entrance fee, 2 gs. Annual subsn., 1½ gs.

Associates must be registered as such for 3 yrs. before election to the F.I.C. The F.I.C. examn., fee for Associates, 5 gs., occupies at least 5 days in any one of the following branches: Inorganic, Physical, Organic, Bio-Chemistry, Agricultural, Foods and Drugs and Water, and Industrial Chem., with special reference to particular industries. In exceptional cases other candidates who have been systematically trained and have had considerable experience may be examined for F.I.C., fee, 10 gs. The F.I.C. may also in exceptional circumstances be granted without examn. to Associates of 3 yrs.' standing who have carried out original research or devised processes or inventions or given other sufficient evidence of knowledge and ability. Entrance fee, Non-Assocs., 5 gs., Assocs., 3 gs. Annual subsn., 2 gs.

Arrangements have been made between the Board of Education and the Institute for the award of National Certificates in Chem. to students in technical schs. and colls. in England and Wales (Rules 100, 1921, 2d.). The Institute in conjunction with the Board approves schemes of training submitted by the technical schs. or colls. for the award of certifs. for part-time grouped courses, including in addition to chem. suitable courses in physics, mathematics, and cognate subjects. Courses for Part-time Course certifs. are designated *Senior* for the Ordinary and *Advanced* for the Higher certif. There are similar schemes in conjunction with the Scottish Education Dept., and with the Ministry of Education, Northern Ireland. Holders of Part-time Certifs. can ascertain from the Registrar of the Institute how far their training qualifies for admission to the examn. for the Associateship.

*Pedler Research Scholarship*, open to Fellows and Associates of the Institute, £300 a year, for at least 12 mos. The Scholar, who may not hold any other Scholarship or Bursary without the knowledge and consent of the Council, must work on a problem suggested by the Council which needs investigation in the public interest. Awarded as funds permit. Particulars from the Registrar of the Institute.

*Publications. Register of Members; Regns. for Admission; Examn. Papers*, 1s. a set; *List of Official Chemical Appointments*, 8th edition, 1934, 5s. net. (This includes a *List of Societies and Institutions* directly interested in the advancement of Chemical Science and Technology, with information as to their chief objects.) *Journal and Procdgs.*, 6 parts annually, 2s. each; *The Profession of Chemistry*, 2s. 6d.;

*Lectures* (monographs on various industries—branches of chemical practice, etc.) at various prices.

## CHEMICAL SOCIETY

*Address*—Burlington House, London, W.1. Professional qualification not required. Admission to Fellowship is by ballot, annual subs., £3. Fellows who are under the age of 25 have, until the end of the year in which they reach that age, the option of paying £1 : 10s. and of receiving the Annual Reports and either the Journal of the Chemical Society or British Chemical and Physiological Abstracts "A," but no other pubns. Monthly Journal and Abstracts. Annual Reports on the progress of Chemistry. Research Fund from which grants are made (to the amount of about £700 p.a.) for purchase of special materials and apparatus for research. See p. 869.

## 8.

## THE INSTITUTION OF CIVIL ENGINEERS

Established 1818. Incorporated by Royal Charter, 1828. *Address*—Great George St., Westminster, S.W.1. *Telegrams*—Institution, London.

Examinations, (i.) Preliminary and (ii.) Associate Membership, are held annually in April and Oct. in London. Entries receivable up to Feb. 28 and Aug. 31. The April examn. may also be held in Manchester, Glasgow, Newcastle-upon-Tyne, and Dublin. (i.) and (ii.) may under certain conditions be held in the King's Dominions overseas.

For admission to (i.) nomination by a corporate member is necessary, and conditions as to practical training have to be fulfilled. It includes English, Maths., and one language and one science subject from the following: Elem. Chem., Elem. Mechanics, Elem. Physics, Latin, Greek, French, German, Ital., Span., Port., Dutch, Afrikaans, Hindustani, Burmese, Russian, Chinese, Japanese.

Admission to (ii.) is open to (a) *Students* of the Instn. (v. *infra*) of at least 1 yr.'s standing between ages 20 and 28, and (b) persons of at least 25 yrs. of age who have passed or are exempt from (i.) and are in other respects (training, experience, etc.) qualified for election into the Institution. It includes papers in (A) Mechanics, Strength and Elasticity of Materials, Electricity and Magnetism, *either* Theory of Structures *or* Theory of Machines; (B) Engin. Drawing and 2 out of 10 other subjects; and (C) Engin. Drawings, Specifications, and Quantities or a Thesis or Report.

For admission as *Student* age must be between 17 and 25, and candidate must be recommended by a corporate member under whom he is, or has been, in course of preparation and training in accordance with the Instn.'s prescriptions. A candidate for election as *Associate*

*Member* must satisfy the Council as to his training and experience, and must, unless exempted, pass (i.) and (ii.). Exemption from (i.) is granted to graduates of any Univ. of the Empire, to Whitworth Scholars and, subject to provisos, to persons who have passed or are entitled to exemption from certain university matriculation or entrance examns. in Gt. Britain and Ireland, Canada (McGill Univ.), Australia, Tasmania, New Zealand, S. Africa, Hong-Kong. Exemption from sections (A) and (B) of (ii.) is granted for the B.Sc. in Engin. or equivalent degree of all the Univs. of Gt. Britain (except Reading) and Ireland, and of the following overseas Univs. : Adel., Brit. Columbia, Cape Town, McGill, Melb., New Zealand, Queen's (Kingston, Ont.), Q'ld., Syd., Tas., Tor., W. Aust., Witw. Exemption from section (B) only is granted to certain Univ. graduates. No exemptions are granted from section (C).

Members and Associate members are entitled to the designation *Chartered Civil Engineer*.

*Publications.* *Report on Methods of Educn. and Training of all Classes of Engrs.*, 1906, Wm. Clowes, 94 Jermyn St., S.W.1, post free, 11d. ; *Report of Confce. on Educn. and Training*, June 1911 ; Papers and Reports on Technical Subjects.

## THE INSTITUTION OF ELECTRICAL ENGINEERS

Founded 1871. Incorporated by Royal Charter, 1921. *Address*—Savoy Place, Victoria Embankment, London, W.C.2. *Telegrams*—Voltampere, Phone, London.

Examinations are held in London and other centres in Great Britain, in May and November, of candidates for Graduateship. Applications should reach the Secy. not later than Apr. 1 and Oct. 1 respectively. Examns. may also be held abroad in Nov. Part I. includes English ; Applied Mechanics, Elec. Technology ; and either Heat, Light and Sound or Chem. Part II. consists of papers on technical subjects.

A candidate for Associate Membership is required to possess an approved educational qualification, or to pass the grad. examn. or in approved cases to present a satisfactory thesis, paper, or other written work on Elect. Eng. or its applications. He must also be at least 26 years of age, and must be engaged in one of the branches of Elect. Eng., and satisfy the Council as to his experience, etc.

An Engineering Degree of any Univ. in the British Empire approved for the purpose is recognized, subject to certain provisos, as an approved educational qualification. Certain diplomas in electrical engineering are likewise recognized.

*National Certificates and Diplomas* are awarded by the Institution jointly with the Board of Education or the Scottish Edn. Dept. on lines similar to those for Mech. Engineers ; v. *infra*.

The following scholarships are awarded annually by the Council :

*Duddell Scholarship.* £150 p.a., tenable for 3 yrs. Each candidate must be nominated not later than April 15 by a Corporate Member of the Instn., and preference will be given to candidates whose fathers or a near relative are, or have been, members of the Instn. Open to

British subjects under 19 yrs. of age on July 1, who have matriculated or passed an examn. exempting from Matricn., and who wish to take up a whole-time day course in Elect. Eng.

*Ferranti Scholarship.* £250 p.a., tenable for 2 yrs. Each candidate must be nominated not later than April 15 by the Professor or Teacher under whom he is working or has worked, and preference will be given to candidates whose fathers are, or have been, members of the Instn. Open to British subjects under 26 yrs. of age on July 1 who are Students or Graduates of the Instn., of not less than two yrs.' standing, and have completed to the satisfaction of the Council a recognized course in Elect. Eng. or Science of at least three yrs., and who desire to carry out whole-time research or post-graduate work.

*Swan Memorial Scholarship,* £120 p.a. tenable for 1 yr. Each candidate must be nominated not later than April 15 by the Prof. or teacher under whom he is working or has worked. Preference given to candidates either (a) born in the Co. Borough of Sunderland, or (b) resident in that Borough for a minimum of 7 yrs., or (c) educated at Sunderland Tech. Coll. Open to British subjects under 27 yrs. of age on July 1 who have completed to the satisfaction of the Council a recognized course in Elect. Eng. or Science of at least 3 yrs. and who desire to carry out whole-time research or post-grad. work.

*Silvanus Thompson Scholarship,* for works employees. £100 p.a. and tuition fees, tenable for 2 yrs. Each candidate must be nominated not later than April 15 by a Corporate Member of the Instn., and must be the son of parents of limited means. Open to British subjects under 22 yrs. of age on July 1, who desire to take up a whole-time day course in Elect. Eng. and who (a) have served a minimum apprenticeship (or its equivalent) of 3 yrs. at an approved Elect. Eng. works, and (b), in addition to having taken full advantage of available opportunities for tech. education, have acquired a marked degree of skill, and/or shown evidence of originality.

Applications (specifically mentioning the name of the Scholarship) for particulars and Nomination Forms should be addressed to the Secretary.

## THE INSTITUTION OF MECHANICAL ENGINEERS

Established 1847. Incorporated by Royal Charter, 1930. *Address*—Storey's Gate, St. James's Park, London, S.W.1. *Telegrams*—Mech. Parl., London.

Examinations are held in London and at provincial centres in April and Oct., and at overseas centres in Oct.: (i.) *Studentship Examn.* (minimum age, 16), including papers in General Knowledge (English, Hist., Geog.), Elem. Maths., Elem. Mechanics, and either Physics or Chem. (ii.) *The Associate Membership Examn.*, including—Section A: App. Maths., Physics and Chem., Modern Lang. or Essay and Fundamentals of Indust. Admin.; Section B: Theory of Machines and Machine Design, Properties and Strength of Materials, and an optional technical subject; also Section C: Workshop Organizn. and Management.

A candidate for election as *Student* must, unless exempted (*see below*),



pass the Studentship Examn. (i.) and be receiving regular training as a mechanical engineer, or full-time instruction in an Engineering School or College with the intention to receive regular training as a mechanical engineer. Minimum age 16.

A candidate for election as *Graduate* must, unless exempted (*see below*), pass Sections A and B of examn. (ii.), and have received or be receiving sufficient regular training as a mechanical engineer to fit him for employment as such. Minimum age, 21.

A candidate for election as *Associate Member* must be at least 25 yrs. of age. The passing of the A.M. or equivalent examn. is indispensable up to the age of 33, and he must also have been regularly trained and have had sufficient practical experience in Mech. Engineering.

Examns. exempting from (i.): a degree of any recognized Univ. in the British Empire; Matriculation and School Certificate Examns. of various Univs. and other examining bodies in Gt. Britain and Ireland; certain examns. of matricn. standard held in South Africa, Australia, New Zealand, and Hong-Kong; certain other examns.

Examns. exempting from Section A and Section B of examn. (ii.): Eng. degrees of any Univ. in Gt. Britain, Ireland, or British Dominions, except such as may be specifically excluded; Eng. degree of a foreign Univ. if recognized by the Council; Diploma in Eng. of Univ., King's, or City and Guilds (Engin.) Coll., London; Certif. in Technol., Mech. or Elect. Engin., Manchester Univ.; Final Dipl. in Mech. or El. E. of R.T.C., Glas., if approved Matricn. examn. passed before beginning course; R.N. examn. qualifying as Lieut. (E.); R.N. College Prof. Certif. for Constructors; Inst. C.E. Assoc. M. examn., provided certain subjects are passed; Whitworth Scholps. and Exhibns.

*National Certificates and Diplomas* are awarded by the Institution in conjunction with the Board of Education to students of approved Technical Schs. and Colls. (v. Board of Education, Rules 106, 1d.). Certificates are awarded in respect of part-time and Diplomas in respect of full-time grouped courses. Part-time courses are classified as *Senior* or *Advanced*, the latter aiming at reaching, within the limits of the subjects covered, the standard of University work. Full-time courses are also classified as *Senior* (for Secondary Sch. students aged 16) and *Advanced* (for Secondary Sch. students aged 17 or 18, or students who have been for 2 yrs. in regular employment with concurrent instruction at senior or advanced part-time courses). The *Senr.* Full-time and *Advanced Pt.-time* courses must extend over at least 2 yrs., and the *Advanced Full-time* and *Senr. Pt.-time* courses should normally extend over 3. The Certifs. and Diplomas relating to Senior and Advanced courses respectively are known as *Ordinary* and *Higher*. The *Ordinary* Certifs. and Diplomas exempt candidates from certain subjects of the Studentship and Associate Membership Examns. and the *Higher Certifs.* and Diplomas from certain subjects of the Associate Membership examn. Special conditions apply to holders of both the *Ordinary* and *Higher* awards. Certifs. and Diplomas may be endorsed in additional subjects on completion of Supplementary Courses and may also be signed on behalf of certain other Instns. in respect of specialized courses.

INSTITUTION OF MINING ENGINEERS, *see* p. 1005

## ROYAL AERONAUTICAL SOCIETY

(with which is incorporated The Institution of Aeronautical Engineers)

Founded 1866. *Address*—7 Albemarle St., London, W.1.

Membership may be either technical (Students, Graduates, Associates, Associate Members, Associate Fellows, Members, and Fellows) or non-technical (Companions). *Associate Fellowship* (A.F.R.Ae.S.) is reserved for those who have certain attainments in the science or practice or teaching of aeronautics or its allied sciences and have passed the Associate Fellowship Examination or an exempting examination; *Associate Membership* (A.M.I.Ae.E.) is reserved for those who have certain attainments in the practice of aeronautics or its allied subjects and have passed the Associate Membership Examination or an exempting examination; *Membership* (M.I.Ae.E.) for those who have attained considerable eminence and are qualified as Associate Members; *Fellowship* (F.R.Ae.S.) for those who have attained to considerable eminence, and are qualified as Associate Fellows. Annual subsn., 1 g., 2 gs., 3 gs., and 4 gs., according to class. Entrance for Associates, Graduates and Companions, 1 g.; for Associate Fellows and Associate Members, 2 gs.; for Fellows and Members, 3 gs. Library, including large recent acquisitions due to grant from Carnegie U.K. Trust, available to non-members through the medium of the National Central Library, 9 Galen Place, W.C.1. *Lectures*, regularly in winter. *Publication*: *Journal* (monthly).

## THE INSTITUTION OF AUTOMOBILE ENGINEERS

Incorporated 1907. *Address*—Headquarters: 12 Hobart Place, London, S.W.1. *Telegrams*—Autinst, Sowest., London. *Laboratories*: Great West Rd., Brentford.

Qualifications for (1) Ordinary Membership (M.I.A.E.): minimum age, 33; having occupied during a sufficient period a responsible position in connexion with the practice, or otherwise proved thorough knowledge of theory and practice, of Automobile Engineering; (2) Associate Membership (A.M.I.A.E.): min. age, 25; having been trained as Engineer and subsequently employed for at least 2 yrs. in practice and science of A.E. and being actually so engaged, and having proved by examn. or otherwise thorough knowledge of the theory and practice of A.E. Persons suitably qualified may also join as graduates, students, associates, or affiliates, and approved automobile manufacturing and transport firms as Affiliated Manufacturers and Operators to receive the Reports of the Research and Standardization Committee of the Instn. and other tech. literature. Annual subsn., 1 g. to 4 gs., according to class. Minimum subsn. for firms, £10 p.a. Prizes up to £10 for Papers by Graduates. Well-equipped laboratories are maintained for the conduct of co-operative research for the automobile industry. The Institution also undertakes the examn. of mechanics engaged in the repair and

service of motor vehicles and issues certifs. and badges of proficiency to successful candidates.

## THE INSTITUTION OF CHEMICAL ENGINEERS

Incorporated Dec. 21, 1922. *Address*—56 Victoria Street, London, S.W.1. *Telegrams*—Inchemengs, Sowest, London.

*Membership* (M.I.Chem.E.) qualifications: minimum age, 32, and satisfactory evidence of good general and scientific education, training, and experience, or of eminence as a Chemical Engineer. *Associate Membership* (A.M.I.Chem.E.): candidates not below the age of 25 who have had regular training and sufficient experience may qualify by passing a prescribed examn. Alternative qualifications are also provided for. Subscriptions of students, graduates, and corporate members range from  $\frac{1}{2}$  g. to 5 gs.

## THE INSTITUTION OF GAS ENGINEERS

Founded 1863. Royal Charter 1929. *Address*—1 Grosvenor Place, London, S.W.1. *Telegrams*—Gasophaner, Knights—London.

There are Major Courses for internal Students at Technical Colls. and for external Students not so studying, for the award—in co-operation with the Board of Education—of Ordinary Grade and Higher Grade Certifs. and the Diploma in Gas Engineering (Manufacture) and in Gas Engineering (Supply). There is also a Course for the Certif. in Gas Supply, primarily intended for candidates not engaged on the practical side of the Gas Industry. The Higher Grade Certifs. in Gas Engin. (Manufacture) or (Supply) or the Diplomas are amongst the qualifications required for admittance to Corporate Membership of the Instn. The Certif. in Gas Supply does not admit to any class of membership, nor to the Diploma Examn. in Gas Engin. (Supply). There are Minor Courses in Gas Works Practice, Gas Supply Practice, and a Course in Gas Fitting.

Candidates for the Diploma in Gas Engin. (Manufacture) and Gas Engin. (Supply) must have passed the Matricn. Examn. of any recognized British Univ. or hold a General Schools Certif, Scottish Leaving Certif., Senior Certif. of Ministry of Education for Northern Ireland, or an equivalent, or pass an Entrance Examn. conducted by the Gas Education Committee of the Instn.

The Livesey Professorship in the Dept. of Coal Gas and Fuel Industries is endowed at Leeds Univ., where the following awards are made by the Instn.: Instn. Gas Research Fellowship, Corbet Woodall Scholarship and William Cartwright Holmes Scholarship. The Arthur Duckham Research Fellowship and the Charles Hunt Memorial Medals in the Diploma Examns. are amongst the awards made by the Instn.

*Publications.* *Transactions*, annually; *Communications*, May and Oct.; *By-Laws*; *Education Regulations*.

## THE INSTITUTE OF MARINE ENGINEERS

Established and incorporated 1889. Royal Charter 1933. *Address*—85 The Minories, London, E.C.3. *Telegrams*—Gradation Ald., London.

There are 5 classes of members, viz. : (i.) Members, (ii.) Companions, (iii.) Associate members, (iv.) Associates, (v.) Students, who being under 25 have had or are receiving a recognized training in engin. or shipbuilding, and have attained the Student examn. standard prescribed by the Institute, (vi.) Probationer Students, who being at least 17 and not over 20 and have passed Part I. of the Student examn. and also satisfied the Council that they are or intend to become engin. apprentices and engin. students at an approved educational instn. The examns. are held in London and the provinces in June; subjects: English and General Knowledge, Maths., Applied Mechs., Machine Drawing, Heat Engines, Electrotechnol.

The Associate Membership examn. is held in London and the provinces in May; subjects: Applied Mechs., Properties and Strength of Materials, Heat Engines, Marine Engin. Drawing and Design, Marine Engin. Knowledge, Electrotechnol. or Naval Archit.

Exemptions are allowed to candidates for Associate Membership, Studentship, and Probationer Studentship in consideration of certain alternative educational qualifications.

Entrance fee, 10s. to 30s., and annual subsn., 5s. to £1:11:6, according to grade of membership.

Library (over 3000 vols.) and Reading Room. Lectures monthly (usually on 2nd Tuesday) during winter session. Gold Medal and other awards for Essay competitions.

Further information from the Secretary.

## INSTITUTION OF NAVAL ARCHITECTS

Founded 1860. Incorporated by Royal Charter 1910. *Address*—2 Adam Street, Adelphi, London, W.C.2. *Telegrams*—Sinai, Rand, London.

Principal qualifications for Membership: minimum age, 30; having served apprenticeship in Naval Arch. or Marine Eng. and subsequently been engaged in such occupation and having held a post of primary responsibility for 7 yrs. or more. Qualifications for Associate-Membership are similar, but minimum age is 25 and post of primary responsibility need not have been held. Age-limit for Associates, 25; Students, 18-25. Entrance fee and annual subsn., 2 gs. each, except for students, who pay subsn. 15s. p.a. and no entrance fee.

There is no preliminary examn., but candidates for admission as students, in addition to having already begun training in Naval Archit. or Marine Engin., must have passed (a) a degree examn.; (b) matricn. or the entrance examn. of a British Empire Univ. (subjects, generally speaking, must cover Advanced or Higher Maths. and Mechs.,

or Physics, or Chem.—full details obtainable from the Secretary of the Instn.); (c) School Certifs. (provided pass with credit obtained in a science subject and Higher or Addnl. Maths. or Appld. Maths.); (d) entrance qualification for Naval Archit. or Marine Engin. students at Royal Naval Coll., Greenwich, or have (e) obtained the rank of Midshipman, R.N., or (f) as dockyard apprentices completed 4 yrs. in a dockyard school and passed the Second Year examn. in English, Hist. and Lit.

*Scholarships* offered for competition: I.N.A., £130 p.a., Trewent, £125 p.a. and Vickers-Armstrong, £150 p.a. in Naval Architecture; Parsons, £150 p.a. and Yarrow, £100 p.a. in Marine Engineering, all tenable for 3 or 4 yrs. and open to Royal Dockyard and/or private shipyard apprentices; one for post-grad. research is awarded on recommendation of Univ. authorities (*see* Appendix II. 12).

Annual meetings, when papers are read and discussed. Summer meetings at shipbuilding centres at home or abroad.

Library, over 5000 vols., comprising principal works on shipbuilding, ancient and modern. *Transactions*, issued annually, a permanent record for over 75 yrs. of all important developments in shipbuilding and marine eng.: £3:3s. for current vol. (free to members); £3:3s. to 10s. 6d. for earlier numbers. Membership 2600, including many foreign naval architects of eminence. Distinctive letters, M.I.N.A., etc.

## NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS

Founded 1884. Incorporated in 1914 under Companies Acts. *Address*—Bolbec Hall, Newcastle-on-Tyne, 1.

Qualifications for Membership, Associate Membership, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (*v. supra*). Distinctive letters, M.N.E.C.Inst., etc. All members are, by virtue of their membership, also members of the *Cleveland Scientific and Technical Institution, Middlesbrough*.

The Institution *Scholarship* in shipbuilding, marine, mech., or elect. eng., maximum value £100, is awarded annually on results of an examn. in July. The scholar must attend a full-time day course in Naval Arch. or in Marine Eng. at a recognized Coll. or Tech. School in Gt. Britain with a view to taking a degree in Naval Arch. or Eng. He must also spend some portion of the summer vacation in a shipyard or engineering works. Further particulars and forms of application obtainable from the Secretary of the Institution.

*The George Mitchell Harroway Scholarship*, value £100 p.a. for 3 yrs., is offered triennially. Next award 1939. Open only to candidates born in the borough of Blyth, Northumberland, or in the county borough of Middlesbrough, Yorks, of not less than 17 or more than 20 yrs. of age on Oct. 1 following date of application. No examn. Otherwise conditions similar to those of Institution Scholarship.

*The Thomas Fenwick Reed Gold Medal*, awarded to a member under

30 who shows most successfully evidence of ability to take a share in the control of industry, is offered biennially for competition.

Library, over 5000 books on eng. and shipbuilding. Reading Room with 170 British, foreign, and colonial periodicals. *Transactions*, 8 Pts. since 1884, 5s. each. Ann. vol., 25s. Papers pubd. also in excerpt form, 2s. 6d. to 5s. each, with discussion, correspondence, and author's reply.

## INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND

Founded 1857. Incorporated 1871. *Address*—39 Elmbank Crescent, Glasgow, C.2.

Qualifications for Membership, Associateship, etc., are somewhat similar to those prescribed by the Instn. of Naval Architects (v. *supra*). Distinctive letters, M.I.E.S., etc. The Instn. reciprocates with the N.E. Coast Instn. of Eng. and Shipb., Inst. of Marine Eng. and Liv. Eng. Soc. in regard to the use of premises and attendance at meetings. It publishes *Transactions*.

## THE INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS

Founded 1873. Incorporated 1890. *Address*—84 Eccleston Square, London, S.W. 1. A Constituent Institution of the Engineering Joint Council.

Qualifications for Membership (M.Inst.M. and Cy.E.): minimum age, 25; holding either a permanent chief appointment as an Engineer or Surveyor under a Municipal Corporation or other such Public Authority, or a permanent appointment as Deputy Engineer or Surveyor or the like; and having passed the examn. of the Instn. or obtained equivalent Degree or Dipl., and in the case of deputies, etc., testimony of professional ability and experience justifying election.

Qualifications for Associate Membership (A.M.Inst.M. and Cy.E.): minimum age, 23; having undergone a recognized course of instruction as Civil Engineer and Surveyor and holding a position as Engineering Asst. or Resident Engineer or the like under a Public Authority; and having passed the examn. of the Instn. or other examn. approved by the Council as equivalent.

A candidate for election as Student (age-limits 18 to 24) must be undergoing or have undergone a regular course of training as an articulated pupil to, or hold an approved appointment with, an Engineer or Surveyor to a Public Authority and must have passed Matricn. or equivalent.

Qualifications for Associates: not being Municipal or County Engineer by profession, but engaged in branches of science allied to municipal or county engineering.

Entrance fee for Member, 1½ gs., and Assoc. Member and Associate, £1 : 5s.; subsn., 2 gs., 1½ gs. Student's subsn., 1 g.

Examinations: April and Oct. Applications receivable up to Nov. 1 and May 1. Five certifs. are awarded: (a) Testamur for general

proficiency in work of a local govt. engineer and surveyor ; (b) certif. in Town Planning awarded as a result of the examn. held by the Town Planning Joint Examn. Bd., of which the Instn. is a constituent body ; (c) certif. in County and Highway Eng. for specialized knowledge of road and bridge eng. and highway management and administration ; (d) diploma in Administration ; (e) Building Inspectors' Certif.

Inquiries about examns. in Gt. Britain, India, and S. Africa may be addressed to the Secretary.

*Publications* : *Journal*, fortnightly, 2 gs. p.a. ; Handbook containing lists of Members, Regns., etc., 5s. ; and several others.

## THE INSTITUTION OF STRUCTURAL ENGINEERS

Founded 1908. Incorporated by Royal Charter, 1934. *Address*—10 Upper Belgrave Street, London, S.W.1. *Telegrams*—Coninst, Knights, London. Branches (7) : Lancashire and Cheshire, Western Counties, Yorkshire, Midland Counties, South-Western, S. Wales, and Scottish.

*Studentship* qualifications : age 18-21 ; should have passed matricn. or an equivalent examn. and should be *bona fide* students of Structural Engin. *Graduateship* : age 21-25, must pass Instn. Examn. or hold exempting qualification and should be *bona fide* students of Struct. Engin. *Associate Membership* : age 25 and upwards ; must be engaged in the profession of Struct. Engin. and pass Instn. Examn. *Associateship* : age 30 and upwards ; for members of kindred professions, interested in Struct. Engin., who are of equal professional standing to Members. *Membership* : age 30 and upwards, who (a) have passed Associateship Membership Examn. and subsequently have been engaged for 5 yrs. in position of responsibility for the design or execution of important Struct. Engin. work, or (b) have attained age 35 and upwards and have had at least 15 yrs. employment in position of responsibility for the design or execution of important Struct. Engin. work and shall have acquired a considerable degree of eminence as a Struct. Engineer, with minimum of 5 yrs. as Principal or active professional Partner in a Firm carrying out Struct. Engin. work. Distinctive initials of Members, etc., M.I.Struct.E., etc.

Examinations held annually in July and Dec., in London, Birmingham, Bristol, Manchester, Middlesbrough, Norwich, Edinburgh, Glasgow and overseas at approved centres ; entries received up to May 1 and Oct. 1. Graduateship Examn. includes papers on Principles of Statics and Theory of Structures (Elem.), Strength and Elasticity of Materials, and 3 of 5 selective subjects : Chem., Phys., Hydraulics, Geol., Surveying. Associate-Membership Examn. includes papers on Theory and Design of Structures (Advanced), either Reinforced Concrete or Structural Steelwork, and Practical Design.

Competitions for the award of prizes and medals, held from time to time.

*Publications* : *The Structural Engineer*, monthly, 1s. 2d. post free ; *Yearbook and List of Members*, 2s. 4d. post free ; numerous books and reports on technical subjects.

## THE INSTITUTION OF WATER ENGINEERS

Established 1896. *Address*—Parliament Mansions, Victoria Street, Westminster, London, S.W.1.

Entrance fee, 3 gs., 2 gs., 1½ gs., according to class; annual subsn., Members and Professional Associates, 3 gs., Associate Members, 2 gs. Associates, 1½ gs., Students, 1 g. Reduction for members overseas. Meetings held in May or June and Dec.

*Publication*: *Transactions*, issued to members only; for sale in certain cases at 1 guinea.

## SOCIETY OF ENGINEERS (INCORPORATED)

Established 1854; Civil and Mechanical Engineers' Society, founded 1859. Incorporated 1910. *Address*—17 Victoria Street, Westminster, London, S.W.1.

Qualifications for membership: *Associates* (A.S.E.): (i.) men of scientific attainments who, while not professional engineers, are engaged in professions allied to engineering; (ii.) Engineers under 21 yrs. of age; (iii.) Engineering pupils above 18 yrs. of age at time of their application for election. *Associate Members* (A.M.S.E.)—Regularly trained engineers not less than 21 yrs. of age professionally engaged as such at time of appln. for election. *Members* (M.S.E.)—Regularly trained engineers not less than 25 yrs. of age and responsibly engaged in the profession for at least 5 yrs. prior to appln. for election. *Fellows* (F.S.E.)—Engineers not less than 30 yrs. of age with adequate scientific edn. and engin. training who have occupied, and still occupy, responsible positions involving design or execution of important engin. works, and have passed the Society's examns., or approved exempting examns. Women are eligible for membership on same terms as above.

Entrance fee: Fellows, 3 gs. Subsn. (Town, Country, and Foreign), 3 gs., 2½ gs., and 2 gs. respectively; Members, 2½ gs.; Subsn. (Town, Country, and Foreign), 2½ gs., 2 gs., and 1½ gs. respectively; Associate Members and Associates over 21 yrs., entrance fee and subsn. each 1½ gs.; Associates under 21 yrs., entrance fee and subsn. each 10s. 6d.

Ordinary meetings held from Oct. to May (Jan. excepted). Visits to works of engin. interest arranged during vacation.

*Publications*: *Journal*, quarterly, 3s. 6d., free to members. *Transactions*, yearly 17s. 6d.

## THE INSTITUTE OF TRANSPORT

Founded 1919. Incorporated by Royal Charter 1926. *Address*—15 Savoy Street, Victoria Embankment, London, W.C.2. *Telegrams*—Transitute, Rand, London.

Principal objects—to promote, encourage, and co-ordinate the study and advancement of the science and art of transport in all its branches.

Corporate Members are Members (M.Inst.T.) and Associate Members (A.M.Inst.T.) being persons elected as such by the Council, who are not



less than 30 and 25 yrs. of age respectively. Non-Corporate Members are Associates (Assoc. Inst. T.) ; Graduates (Grad. Inst. T.) persons not under 21 yrs. ; Students (Stud. Inst. T.) persons not under 17 yrs.

*Examinations.* Examns. are held annually in London and at such other centres (home and overseas) as the Council may from time to time establish. Unless otherwise determined, they will commence on the last Thursday in April. The Council at its discretion may also hold the examns. in Nov. of any year commencing on the last Thursday.

Applicants for admission to the Graduateship or Assoc. Membership Examn. must complete and submit the form of application to the Sec. not later than March 1 in respect of examn. in April following and Sept. 1 in respect of examns. which may be held in Nov. following.

*Examn. Fees.* Graduateship Examn., 2 gs. ; Assoc. Membership Examn., 3 gs.

A candidate for Studentship of the Inst. shall be deemed to have passed a Qualifying Examn. who produces evidence of having passed one of the following examns. :

Graduateship of any British Univ. The Matricn. Examn. or Entrance Examn. of any recognized British Univ. The Higher School Certif. Examn., and School Certif. Examn. of any recognized Brit. Univ. The Higher Certif. Examn., and School Certif. Examn. of the Ox. and Camb. Schools Examn. Bd. The Senr. Examn. of the Coll. of Preceptors. The School Certif. and Higher Certif. of the Central Welsh Bd. Leaving Certif. and Day School Certif. (Higher) of the Scottish Edn. Dept. The Senr. Secondary Schools Certif. of the Ministry of Edn. of Northern Ireland. Leaving Certif. Examn. of the Dept. of Edn., Irish Free State. General School Examn. of London Univ. *The preliminary examn. of any of the following :* Instn. of Civil and Mech. Engineers ; Surveyors' Instn. ; Instn. of Chartered Accountants ; Society of Incorporated Accountants and Auditors ; and the Chartered Inst. of Secretaries.

*Entrance Fee.* Members and Associates, 3 gs., Assoc. Members, 2 gs., Graduates, 1 g. *Annual subsns. :* Gt. Brit. or Ireland, amounts as above ; outside, 1½ gs., 1 g., and 10s. 6d. respectively. Students, Gt. Brit. or Ireland, 1 g., outside, 10s. 6d.

Meetings (Oct. to April) and Conferences are held, and lectures given.

Local Sections : Birmingham and District, Bristol and District, East Midlands, Leeds and District, Manchester-Liverpool and District, Newcastle-on-Tyne and District, Scottish. Centres abroad : in the Argentine, New South Wales, South Africa.

Premiums (gold and silver medals) are awarded, and in addition a Premium, presented by *Modern Transport*, is available for a paper by a Graduate or Student.

In co-operation with certain of the Univs., and other educational instns., courses of instruction on transport subjects have been provided.

Further particulars on appln. to the Secretary.

## 9.

## INSTITUTE OF INDUSTRIAL ADMINISTRATION

(Incorporating the Business Research and Management Association of Great Britain.)

Founded 1922. *Address*—Artillery House, Artillery Row, London, S.W.1.

Among its objects are the following: To formulate the standards of knowledge, training, conduct and experience desirable in the practice of Indust. Admin.; to develop the science and technique of Indust. Admin. by papers, conferences and research; to promote the education of students in the principles and practice of the subject; to hold examns. and grant Certificates and Diplomas.

Examinations: Prelim.—Fundamentals of Indust. Admin.; Ordinary Certif.; Higher Certif.; Diploma.

Annual subns.—Fellows (F.I.I.A.), 3 gs.; Graduates (Grad. I.I.A.), 15s.; Affiliate Members, 1 g.; Student Members (17-25 yrs.), 10s. Graduateship may be granted to persons holding a B.Sc. (Econ.) or B.Com. degree of any approved Univ. or who have passed the qualifying examns. of approved professional bodies in the field of management.

A series of researches into and reports upon important current problems of indust. admin. are now under consideration. An Appointments Register is kept, free of charge.

## 10.

## THE BAR IN ENGLAND AND WALES

The right to practise as a Barrister in the Law Courts of England and Wales is restricted to those who have been called to the Bar by one of the Inns of Court—Lincoln's Inn, Middle Temple, Inner Temple, and Gray's Inn. The consolidated Regulations of these Societies (obtainable from the *Council of Legal Education*, 15 Old Square, Lincoln's Inn, London, W.C.2) provide, *inter alia*, as follows: *Admission of Students*. The conditions include: (i.) having passed any examn. held by any Univ. in the British Dominions or any of the States in India, approved by the Council of Legal Educn., which entitles to a degree, or, provided that one of the subjects in which the Student has passed is Latin, one of certain other examinations approved by the Council of Legal Education; (ii.) satisfactory evidence of good character; (iii.) declaration that the candidate is not and does not "directly or indirectly act in the capacity of a Solicitor, Attorney-at-Law . . . Professional Accountant, Actuary, Land-Agent, Surveyor . . ." or "in any capacity

similar to any of those . . . otherwise than as . . .” The Schedule of approved Prelim. examns. includes those of the standing of Oxford Responsions, Cambridge Previous, and London Matriculation. The Council may add others, and the Masters of the Bench of the Inn of Court concerned may, in special cases, relax or dispense with this requirement, and solicitors admitted in England are exempted from it.

*Keeping Terms.* This is done by eating dinners 6 days in each of 12 terms (members of Univs. of the U.K. 3 days). There are 4 terms in each year.

*Education and Examination.* Systematic instruction is provided at the Inns of Court School of Law under the supervision and direction of the Council of Legal Education in Roman, International, Constitutional, and English Law, Legal History, and Equity. Reading in the chambers of a Barrister or Pleader for the purpose of studying the practice of Law is recommended after the Bar Examns. have been passed, but this is not compulsory. Three examns. for Call to the Bar are held each year. Candidates must satisfy the examiners in each of the sections: (1) Roman Law, (2) Constitutional Law (English and Colonial) and Legal History, (3) Elements of the Law of Contract and of the Law of Tort, (4) Elements of Real Property, *or* Hindu and Mohammedan Law, *or* Roman Dutch Law, (5) Criminal Law and Procedure, (6) Common Law, (7) Equity, (8) Company Law and Practical Conveyancing (or a specified alternative), (9) Law of Evidence and Civil Procedure, (10) General Paper on Common Law and Equity. A student who has passed examinations forming part of the qualifying examn. for certain Univ. degrees may be excused some or all of the examn. in Part I. Sections 1 to 4 (constituting Part I.) may be taken separately (fee  $\frac{1}{2}$  g. each); 5 to 9 (the Final examn.) must be taken together (fee 2½ gs.) after having passed 1 to 4 and, ordinarily, after having kept at least 6 terms.

The successful students are classified and the names of those in Classes I. and II. of the Final Examination Pass List are arranged in order of merit. A Certif. of Honour is granted to those in Class I. at the Final examn. Prizes of £50 each may be awarded for the best students (age not over 25) in Constitutional Law and Criminal Law, and a Studentship of 100 gs. p.a. tenable for 3 yrs. to the best student (age not over 25) at the Final examination. The Inn to which a student who has obtained a Studentship or Certificate of Honour belongs may, if desired, dispense with any terms, not exceeding 2, that may remain to be kept by him.

*Calls to the Bar.* Minimum age, 21. In special circumstances the Masters of the Bench may dispense with the keeping of not more than 2 of the 12 terms ordinarily required to be kept by a student before he is called, and special concessions in regard to the keeping of terms or examns., etc., are allowed to Scottish Advocates, Irish Barristers, members of the Bar of New South Wales, Ceylon, the Cape Province of South Africa, New Zealand, Vakils or Advocates who have been on the Roll of Vakils or Advocates of a High Court in India for not less than 3 yrs., certain Civil Servants exercising judicial functions abroad, and to persons who, prior to admission as students, have practised as Solicitors for 5 yrs. subsequent to admission as a solicitor *in England*.

*Fees.* On admission : application, 1 g. ; stamp duty, £25 ; lecture fee, 12 gs. ; admission fees, £20 or £21. On Call : stamp duty, £50 ; composition for annual dues, £12 ; call fees, £38 (Gray's), £40 (Lincoln's), £50 (Middle or Inner Temple).

## SOLICITORS IN ENGLAND AND WALES

Examinations are held by The LAW SOCIETY, Chancery Lane, London, W.C.2. All persons, except some Colonial Solicitors, are subject to Final examn. at or near the conclusion of service under Articles before they can be admitted as Solicitors. Subjects of Foreign States cannot be admitted. English Barristers of 5 yrs.' standing are not required to enter into Articles, but may be admitted after passing the Final examn. Before entering into Articles of Clerkship (under the Solrs. Acts, 1932 and 1936) with a view to admission as Solicitors it is necessary, except for persons exempted, to pass a *Preliminary examn.* (fee, £4) held in London and several provincial towns in Feb., July, and Oct., in English, Elem. Maths., Geog. of Europe, and Hist. of England, Latin, and one or (if Algebra and Elem. Geom. are not taken) two of the following—Latin translation, Greek, French, German, Spanish, Italian. Exemption is allowed to graduates in Arts or Laws and persons who have passed matricn. or other corresponding examns. of certain Univs. of Great Britain or Ireland or examns. approved by the Law Society exempting therefrom ; to Utter Barristers in England ; and to persons who have passed Oxford Responsions or Cambridge Previous Examn. or any examn. exempting therefrom, or, subject to provisos, approved School Certificate or Higher Certificate examns., or certain other examns. After Jan. 1, 1938, Latin must have been one of the subjects passed at such matriculation examn. or exempting examn., including Responsions and the Previous Examn.

*Service under Articles* (stamp duty, £80) is normally for 5 yrs. This may be reduced to 3 yrs. for graduates in Arts or Laws or Sc. of certain Univs. of the U.K., English Barristers, of less than 5 yrs.' standing, or for members of the Faculty of Advocates, Writers to the Signet and Solrs. in the Supreme Courts of Scotland, or Procurators before any of the Sheriff Courts of Scotland.

An *Intermediate examn.* (fee, £6), which may be taken after completing 12 months' service in the case of 5 or 4½ years' articles, is held in March, June and Nov. Clerks articulated for less than 4½ yrs. may take any Intermed. Examn. after the Registration of articles. Exemption from the Legal portion (but not from the Trust Accounts and Book-keeping portion) is given to those who (i.) before or after entering into Articles have passed the examn. for the B.C.L. or LL.B. at certain of the Univs. of England and Wales or at the Univ. of Dublin or the Queen's Univ. of Belfast ; or (ii.) before entering into Articles have taken Hons. in the Final Honour School of Jurispr. at Oxford or in Part 2 of the Law Tripos at Cambridge.

The *Final examn.* (fee, 10 gs.) is held in March, June, and Nov. Prints of the Questions set at this and at the Preliminary and Intermed. are obtainable from The Law Society.

THE SOLICITORS ACTS, 1932 and 1936. Section 7 (b) of the Solrs. Act 1936, requires that attendance at a Law School under Section 32 of the 1932 Act shall commence within 15 months of the execution of Articles. The latter provides that a person articled to a solicitor after Dec. 31, 1922, shall not be admitted to the Final Examn. unless he satisfies The Law Society that he has, during a period of 1 yr., complied with the requirements of the Society as to attendance at a Law School provided or approved by the Society. This does not apply to any person who (1) has taken a degree at certain Univs. in the U.K., after passing a Final Examn. in law at such Univ. ; or (2) applies to be admitted to The Law Society's Final Examn. after satisfying the requirements of Section 32 (1) (c) (ii.) of the Solrs. Act, 1932 and Section 7 (3) (b) of the Solrs. Act, 1936, and the regulations thereunder dated Oct. 23, 1936. Any person may be wholly or partially exempted from attendance at a Law School if he can satisfy The Law Society that such attendance is for geographical or other reasons impracticable.

*Provided and Approved Schools.* The Society's Law School in London ; the Univs. of Birmingham (in conjunction with the Birmingham Board of Legal Studies), Bristol, Cambridge, Durham (Armstrong College), Leeds, Liverpool (in conjunction with the Liverpool Board of Legal Studies), London, Manchester, Oxford, Sheffield, Wales (Univ. Colleges, Aberystwyth, Bangor, Cardiff, Swansea), Univ. College, Exeter, Univ. College, Southampton, East Midland Law School (Univ. Colleges of Nottingham and Leicester), Univ. College, Hull, and the Sussex Board of Legal Studies.

## SCOTLAND

### ADVOCATES

Full information as to admission to the Faculty of Advocates, Scotland, can be obtained on application to the Clerk of Intrants, Advocates' Library, Edinburgh.

The Faculty Examns. proceed upon a remit from the Court, following upon a Petition presented by the Intrans. In the event of the candidate not possessing a degree in Arts, he must either satisfy the Dean and his Council that he has passed an examn. evidencing the same amount of scholarship as that afforded by the degree of Master of Arts of a Scottish Univ., or pass the Faculty examn. in General Scholarship. A knowledge of Scots Law and Conveyancing is essential, and the candidate must have attended classes in these subjects in a Scottish or other approved Univ. The other legal subjects include Civil (Roman) Law, Philosophy of Law and International Law, Constitutional Law and History, and Medical Jurisprudence. The degree of LL.B. of a Scottish Univ., provided it has been obtained after examn. in all the prescribed subjects, exempts from examn. in General Scholarship and Law.

The fees payable on admission vary according to the age of the Intrans and other circumstances.

### SOLICITORS (LAW AGENTS)

The generic name for solicitors in Scotland had up till 1933 been "Law Agent," a term synonymous with "Solicitor" in England, but "Law Agent" has now been replaced by "Solicitor" under the Solicitors (Scotland) Act, 1933. The title "Procurator" is also sometimes used. In Edinburgh, where the Court of Session sits, the term "Advocate" is equivalent to "Barrister," though in other parts of Scotland—at least in Aberdeen—certain of the Solicitors or Law Agents may be referred to by that title. In Edinburgh, Law Agents or Solicitors may be members of the Society of Writers to the Signet or of the Society of Solicitors in the Supreme Courts. The former generally use the designation "W.S.," the latter "S.S.C.," after their names, but any solicitor can practise without being a member of either Society provided that he has passed and been admitted "as a Solicitor."

For information regarding the Scottish Law Agents Society, application should be made to the Secretary, Scottish Law Agents Society, Dunblane.

### WRITERS TO HIS MAJESTY'S SIGNET

The members of the Senior Society of solicitors in Scotland are called Writers to the Signet, from their having been originally clerks in the office of the King's Secretary. The method of entering the Society of Writers to His Majesty's Signet is by way of Petition to the Keeper and Commissioners of the Signet followed by Indenture, the period being either 5 or 3 yrs. according to the age and qualifications of the applicant. The fees payable on entering into Indenture are £345: 1s., together with other minor charges. Two examns. have to be passed, the first directed both to the theory and to the practice of Law. Upon expiry of the term of apprenticeship and after discharge of the Indenture the Intrant has to pass a second examn. in legal subjects. An applicant who holds a degree in Law of any Scottish University is exempted from all examinations except in Book-keeping and Accountancy provided that the Law of Scotland, Conveyancing, and Civil and Criminal Procedure are included in the subjects in which he has passed for the Degree. The fees payable by Intrants for admission amount to £137: 17s. For further information application should be made to the Substitute Keeper and Clerk of the Society of Writers to His Majesty's Signet, 15 York Place, Edinburgh.

### SOLICITORS

An intending Apprentice before commencing his apprenticeship must hold such qualifications as would entitle him to enter on a graduation course in the Faculty of Law of a Scottish Univ. He is required, after his indenture to a Solicitor, to pass three Professional examns. The First Professional examn. consists of Part 1, Book-keeping, Trust Accounts, and Income Tax Law, and Part 2 Constitutional Law. This examn. may be passed at any time after the commencement of apprenticeship. The Second Professional examn. may be passed at any time after the First Professional has been passed, the subjects being, (a) Outlines of Roman Law, and (b) Elementary Jurisprudence. The Third

Professional examn., Part 1 covers the Law of Scotland, Civil and Criminal, excepting the Law of Trusts and Succession. This cannot be taken before passing the Second Professional or sooner than 2 yrs. before the expiry of the apprenticeship. Part 2 of Third Professional includes Conveyancing, Law of Trusts and Succession, Court of Session and Sheriff Court Practice, Criminal Procedure and the Principles of Evidence. This can be taken after the Apprentice has passed Part 1. Attendance at classes of Scots Law and Conveyancing is essential prior to examn. in these subjects. The period of apprenticeship is 5 yrs., but, where the Apprentice holds a degree in Law or Arts of a Univ. in Gt. Britain, and in some other cases, the period is reduced to 3 yrs. The duty for admission to practise before the Sheriff Court is £55 and before the Court of Session, £85. Various fees have to be paid in the course of apprenticeship and for the examns. Any further information may be obtained from George S. Donaldson, S.S.C., 8 Albany Street, Edinburgh.

The above regulations came into force on January 1, 1938.

### THE BAR OF NORTHERN IRELAND

Admission to the Bar of N. Ireland is controlled by the Honourable Society of the Inn of Court of Northern Ireland, Royal Courts of Justice, Belfast. The course covers a period of 3 yrs. commencing with Michaelmas Term. A student must have passed a Univ. Matricn. Examn. (incl. Latin). He must keep 3 Terms Commons in one of the 4 Inns of Court in London. Except where expressly provided otherwise he shall attend each yr. a continuous and complete course of lectures at the Queen's Univ., Belfast, and shall pass the examns. connected therewith. In his 2nd or 3rd yr. he may attend the lectures of the Profs. of the Council of Legal Education in London instead of one of the yrs. at the Queen's Univ. A student of an approved Univ. in Gt. Britain and Ireland may, with the approval of the Benchers previously obtained, be given credit for his first yr.'s legal education by attending a complete course for 1 yr. in the Univ. Law School. Before presenting his Memorial for Call he must pass in Sections I., II., III., V., and VI., and in Company Law (Section IV.) of Pt. II. (The Final Examn.) for Call to the Bar held under the Council of Legal Education in England. No student shall be called to the Bar of N. Ireland unless he shall possess an Arts degree or some other Univ. degree which, in the opinion of the Benchers, is equivalent thereto.

*Fees.* Before admission as student, 1 guinea for Form of Memorial. Upon presentation of Mem., Stamp duty £25, and fee of £25 to the Inn. Univ. Lectures, 15 gs. p.a. Before admission to degree of Barr.-at-Law, Memorial stamp duty £50, fee to Inn £50. On admission, 1 guinea for Certificate of Admission. In addition there are fees upon joining an English Inn and 2½ gs. on entering for Final Examn.

### THE BAR OF THE IRISH FREE STATE

Students are admitted into the Honourable Society of the King's Inns and to the degree of Barrister-at-Law under rules adopted by the

Benchers and revised in July 1933 which are obtainable from the Under-Treasurer, The King's Inns, Dublin. A candidate for admission as a student must present a memorial addressed to the Benchers in the prescribed form with a certificate signed by a practising barrister of 10 years' standing. A special form of memorial is required if the candidate is not a citizen of the Irish Free State or of Gt. Britain or Northern Ireland.

Students (other than those who have passed a public examn. at a recognized University or any of the approved examns., or any other examn. recognized by any Univ. in Ireland as equivalent to its matricn. examn. and including Latin, or are students of the Inns of Court in England) are required to pass a preliminary examn. in (a) Irish or English, (b) Latin, (c) Irish History and English History.

Non-university students must complete a course of legal education during 4 yrs., of which the first 2 consist of a course to be taken at one of the Constituent Colleges of the Nat. Univ. of Ireland or in Trinity Coll., Dublin, or in Queen's Univ., Belfast. The second 2 yrs. consist of a continuous course of lectures delivered at the King's Inns, Dublin.

The course for Univ. students is 3 yrs. only, of which 1 yr. is taken at one of the above-named Colleges and the two subsequent yrs. consist of the continuous course of lectures given at the King's Inns. Term examns. are held at the end of each term and Annual examns. at the end of each year. A Final Examn. for admission to the Bar is held at the end of the continuous course.

Students who have been pupils in the chambers of a Barrister in England for 1 yr. may be excused 1 yr.'s course. There are 4 terms of 20 days each. Every student must keep 12 Terms Commons in the Dining Hall of the Society or may substitute for 4 of such Terms, 4 Terms in one of the Four Inns of Court in London. Prizes are awarded at the examns. held at the end of each year of the continuous course.

Students who have passed the Final Examn. may compete for the John Brooke scholarship and other prizes. Every person who was not over the age of 15 yrs. on Oct. 1, 1929, must in order to be admitted to practise in the Courts of the Irish Free State comply with the provisions of the Legal Practitioners (Qualification) Act, 1929, as regards knowledge of Irish.

Solicitors and Writers to the Signet are admitted to the Bar on complying with the provisions of Rule 29.

English Barristers of three years' standing who obtain a certificate from the Attorney-General or Solicitor-General of England may be called to the Irish Bar upon keeping three terms without examn. Irish Barristers may be called to the English Bar upon similar reciprocal terms.

*Fees.* On memorial, 1 guinea. On admission as a student, Stamp Duty of £25 and fee to the Society, £22 : 10s. Annual fee for education course, £15 : 15s. Fees payable on call to the Bar, Stamp Duty of £50 and fee to the Society, £40.

## SOLICITORS IN THE IRISH FREE STATE

With the exception of candidates who have passed certain Univ. and school examns., all intending apprentices are required to pass a prelim.



examn. (held in April and Oct. in each yr.) before being bound under indentures, the course for which is published 1 yr. in advance. Candidates, who must have attained the age of 16, must lodge with the Secretary of the Society, *at least* 3 wks. before the appointed day of the examn., a notice, petition, and memorial, together with baptismal certif. and fee of £10. All intending apprentices who were under the age of 15 on Oct. 1, 1929, must obtain a certif. from the Inc. Law Society of Ireland that he or she has passed a first examn. in Irish, and all apprentices must pass a second examn. in Irish within 1 yr. before being admitted. These examns. in Irish are held by the Inc. Law Society twice yearly. The period of service under indentures varies from 3 to 5 yrs., the reduction being made for graduates of certain Univs.

Apprentices other than those who have been barristers in Ireland must attend two years' lectures by professors of the Society in Common Law, Equity, Real Property Law, and Conveyancing. Fees, 6 gs.

The Intermediate Examn., held in June and Oct., must be taken by all apprentices other than graduates in Laws of Irish and certain British Univs.

The Final Examn., held in April and Oct., fee £10, must be taken by all apprentices before admission as a solicitor. Admission is not granted to candidates under 21 yrs. of age. Fees, £25 stamp duty, and 5 gs. payable to the Society.

Further particulars from the Secretary, Incorporated Law Society, Solicitors' Buildings, Four Courts, Dublin, N.W.8.

## II.

### MEDICAL AND DENTAL QUALIFICATIONS AND STUDIES

#### A. MEDICAL QUALIFICATIONS

*Address of the Registrar, General Medical Council*—44 Hallam St., Portland Place, London, W.1. *Telegrams*—Genmedicum, Wesdo, London. *Addresses of Registrars of Branch Councils*—44 Queen St., Edinburgh, 2; 35 Dawson St., Dublin.

No person is recognized by law as a legally qualified Medical Practitioner in Great Britain or Ireland whose qualification is not *registered* in the Medical Register kept by the *General Medical Council*. Below are lists of the qualifications so registrable—obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas, (c) in foreign countries. The document presented in evidence of any of these must show that the possessor has passed a Qualifying examn. in Medicine, Surgery, and Midwifery. For registration in the Colonial or Foreign list it is essential that the qualification be first registered in the Province, State, etc., in which it was obtained.

*Position of Doctors with Qualifications Granted in the Irish Free State.* Persons who obtain recognized qualifications in the Irish Free State can

register there, and should do so if they desire to practise in that State. They are also entitled to registration on the Medical Register if they desire to practise elsewhere than in the Free State.

*Position of Doctors with British Qualifications in Irish Free State.* Persons on the British Medical Register can register and practise in the Irish Free State on payment of the requisite fee of £5 *plus* 1s. for stamp.

(a)

Royal College of Physicians, London—F., M., L., R.C.P., Lond.

Royal College of Surgeons of England—F., M., R.C.S. Eng.

Royal College of Physicians of Edinburgh—F., M., L., R.C.P. Edin.

Royal College of Surgeons of Edinburgh—F., L., R.C.S. Edin.

Royal Faculty of Physicians and Surgeons of Glasgow—F., L., R.F.P.S. Glas.

Royal College of Physicians of Ireland—F., M., L., L.M., R.C.P. Irel.

Royal College of Surgeons in Ireland—F., L., L.M., R.C.S. Irel.

Apothecaries' Soc. of London—L.M.S.S.A. Lond.

Apothecaries' Hall, Dublin—L.A.H. Dub.

Each Univ. in Great Britain or Ireland—M.D. (Ox. D.M.), M.B. (Ox., B.M.), Ch.B. or B.Ch. or B.S. (Camb. B.Chir.), Ch.M. or M.Ch. or M.S. or C.M. (Camb. M.Chir.) or M.Ch. (Orth.) L'pool; Dub.: L.Med., L.Ch.; M.A.O. (Dub., N.U.I., Q.U. Belf.).

Registrable Diplomas or Certificates for proficiency in Sanitary Science, Public Health, or State Medicine, which may be added to qualifications already registered, but do not admit primarily to the Register:

D.P.H. (R.C.P.S. Engl., R.C.P.S. Edin., and R.F.P.S. Glas., R.C.P.S. Irel., and those Univs. of Great Britain and Ireland granting the Diploma).

B.Sc. (P.H.) Birm.

B.Hy., D.Hy. Durh.

B.Sc. (P.H.), D.Sc. (P.H.) Edin.; B.Sc. (P.H.), D.Sc. (P.H.) Glas.

The period between the obtaining of a medical qualification and a Diploma is not less than 2 years.

Under the Public Health Acts no appointment as Med. Officer of Health may be made in any county, district, or combination of districts of a population of 50,000 or upwards unless he is registered as the holder of a Diploma in San. Sc., Public Health, or State Med.

(b)

*Australia.* M.B., M.D. Syd., Adel., or Melb.; Ch.M., B.S. Syd.; B.S., M.S. Adel.; B.S. Melb.

*Canada.* M.D. Alberta; M.D. C.M. Dal.; M.D., or M.D. C.M. Man.; L.M.S. Nova Scotia Provl. Med. Board, or Prince Edward Island Med. Council.

M.C.P. & S. Alta., or Man.

*Ceylon.* L.M.S. Ceylon Med. Coll.

*Hong-Kong.* M.B., B.S., M.D., M.S. Hong-Kong.

*India.*

M.B., B.S. All., if granted on or before Feb. 24, 1930.

L.M.S., M.B., B.S., M.D., M.S. Bom.

L.M.S., M.B., M.D., M.S., M.O. Calc. (except qualifications granted between Nov. 30, 1924, and May 12, 1928, or between Feb. 25, 1930, and Oct. 15, 1936).

M.B., C.M., M.B., B.S., M.D. Mad.

L.M.S., M.B., B.S., M.D., M.S. Panj.

M.B., B.S. Patna (if granted on or after May 11, 1935).

M.B., B.S., Lucknow

*Malta.* M.D. Malta.

*Newfoundland.* L.M.S. Nfld. Med. Board.

*New Zealand.* M.B., Ch.B., Ch.M., M.D. N.Z.

*South Africa.*

M.B., Ch.B. S. Africa.

M.B., Ch.B., M.D., Ch.M. Cape Town.

M.B., B.Ch., M.D., Ch.M., U. Witwatersrand.

*Straits Settlements.* L.M.S. Singapore Med. Coll.

(c)

Degrees of (i.) Doctor of Med. and Surg. of all the Royal Italian Univs.; (ii.) Bachelor of Med. and Doctor of Med. of the Imperial Univs. of Japan; and Bachelor of Med. of any Govt. or Prefectural Special Med. Coll. or of a private special Med. Coll. designated by a Minister of Educn. of the Empire of Japan.

## B. REGISTRATION OF MEDICAL STUDENTS

The General Medical Council recommend that every medical student at the commencement of his studies should be registered. A memorandum on the procedure to be adopted, with a list of approved Medical Schools, Hospital Fees, etc., may be obtained from the Registrar, 44 Hallam St., London, W.1, price 1s. Students desiring to be registered should apply in the prescribed form, obtainable from any of the Registrars (v. *supra*), submitting evidence of having—(a) attained the age of 17; (b) passed a Preliminary examn. in General Education recognized by the Council; (c) passed also an examn. in *Elementary Physics* and *Elementary Chemistry* conducted or recognized by one of the Licensing Bodies; (d) commenced Medical study at an approved Univ. or Medical School.

As regards (b) the standard of the Preliminary examns. recognized by the Council is approximately that of Univ. Matricn. examns. in the faculties of Arts and Pure Science, and requires in the case of School Certificates which do not exempt from Matricn. that the examn. certificate shall bear evidence that the candidate has passed *with credit* at not more than two sittings in English, Elem. Maths., a language other than English, and an additional subject or subjects as required by the regns. of the particular examn., to be chosen from the subjoined list, viz. Hist., Geog., Physical Sc., Nat. Sc., Botany, Latin, Greek, Hebrew, French, German, or other language accepted by the Univ. for the purpose. Applicants from recognized Dominion or Colonial Univs. must produce evidence that they have passed the complete Matricn. examn. for the faculty of Arts or of Science (Pure) of the Univ. or Coll. from which they come, or an examn. accepted as equivalent thereto, and that the examn.

passed is accepted by one of the Univs. of Gt. Britain or Ireland for similar purposes. Applicants from recognized Indian Univs. must produce evidence that they have passed the Matricn. examn. of the Univ. from which they come, or an examn. recognized as equivalent thereto, and, in addition, the Prelim. Sci. or Intern. examn. in Arts or Sc. of their own Univ. in the four subjects specified above. Applicants from Foreign Univs. should submit their credentials to the Registrar.

As regards (c), this requirement is not dispensed with in cases where *Physics* and *Chemistry* of a Matricn. standard formed part of the (b) examn., but an applicant from recognized Dominion or Colonial Univs. or Colls. is permitted to substitute for it a certificate that an examn. in *Physics* and *Chem.* (and, in addition, *Biol.*, v. *infra*) equivalent in standard to the First Professional examn. in these subjects has been passed by the student. Similarly, in the case of an applicant from one of the recognized Indian Univs. the Prelim. Scientific or Intermediate examn. in Arts or Sc. of his own Univ. will suffice if these subjects are included in his Pass certificate *in addition* to the four subjects required under (b), *supra*.

As regards (d), institutions in which Medical Study may be commenced include all the Univs. and other Bodies throughout the Empire of which the *qualifications* (v. *supra*) have been recognized as entitling to registration in the U.K.

A student who has diligently attended an approved course of instruction in *Elementary Biology* at a Secondary school or other teaching institution recognized by a Licensing Body may be admitted to the Professional examn. in this subject immediately after his registration as a student.

Not all the licensing bodies require students to be registered by the General Medical Council.

### C. DENTAL QUALIFICATIONS

Under the Dentists Act, 1921, no person who is unregistered can practise dentistry without rendering himself liable to prosecution.

The Dental Board of the United Kingdom was constituted by the Dentists Act, 1921, and is charged with the duty of dental registration. The address of the Registrar is 44 Hallam St., London, W.1. *Telegrams*—Dentiboard, Wesdo, London.

The following lists show the registrable qualifications obtainable (a) in Great Britain and Ireland, (b) in British Possessions overseas.

#### (a)

Royal College of Surgeons of England—L.D.S.R.C.S. Eng.  
 Royal College of Surgeons of Edinburgh—H.D.D., L.D.S.R.C.S. Edin.  
 Royal Faculty of Physicians and Surgeons of Glasgow—H.D.D., L.D.S.R.F.P.S. Glas.  
 Royal College of Surgeons in Ireland—L.D.S., R.C.S. Irel.  
 Univ. of Birmingham—M.D.S., B.D.S., L.D.S. U. Birm.  
 Univ. of Bristol—M.D.S., B.D.S., L.D.S. U. Brist.  
 Univ. of Durham—M.D.S., B.D.S., L.D.S. U. Durh.  
 Univ. of Leeds—M.Ch.D., B.Ch.D., L.D.S. U. Leeds.  
 Univ. of Liverpool—M.D.S., B.D.S., L.D.S. U. Lpool.

Univ. of London—B.D.S., M.S. (Dent.) U. Lond.  
 Victoria University of Manchester—M.D.S., B.D.S., L.D.S. V. U. Manc  
 Univ. of Sheffield—M.D.S., B.D.S., L.D.S. U. Sheff.  
 Univ. of St. Andrews—L.D.S. U. St. And.  
 Univ. of Dublin—M.D.Sc., B.D.Sc., L.D.Sc. U. Dubl.  
 National Univ. of Ireland—M.D.S., B.D.S. N.U. Irel.  
 Queen's Univ. of Belfast—M.D.S., B.D.S., L.D.S. Q.U. Belf.

(b)

Victoria, Australia—L.D.S. Vict.  
 Univ. of New Zealand—B.D.S. U. N. Zealand.  
 Univ. of Adelaide—B.D.S., D.D.Sc., U. Adelaide.\*  
 Univ. of Sydney—B.D.S., D.D.Sc. U. Sydney.  
 Univ. of Melbourne—B.D.Sc., D.D.Sc. U. Melb.  
 Univ. of Witwatersrand, B.D.S., D.D.S. U. Witwatersrand.  
 Univ. of Malta—D.D.S. U. Malta.

## D. REGISTRATION OF DENTAL STUDENTS

I. Registration is carried on at the Office of the General Medical Council in London in the same manner as that of Med. students, and is subject to the same regns. as regards age and Prelim. examns., but professional study may commence by pupilage with a Registered Dental Practitioner.

II. Candidates for a Diploma in Dental Surgery should produce certificates of having been engaged in professional studies for at least 4 years, including 3 years at least at a Dental school or schools recognized for professional study by one of the Licensing Bodies, and of having received for not less than 24 calendar months, or for 2000 hours, practical instruction in Dental Mechanics.

III. Two years' or more *bona-fide* apprenticeship with a Registered Dental Practitioner, after being registered as a Dental student, may be counted as 1 of the 4 yrs. of professional study.

IV. The necessary instruction in Dental Mechanics, or any part of it, may be taken by the Dental student either before or after his registration as a student. When he can show evidence of at least 2 yrs.' regular pupilage in Dental Mechanics to a Registered Practitioner, prior to passing the prescribed Prelim. and Sci. examns., he may be allowed to antedate by not more than 1 yr. the passing of these examns.

V. It is recommended that instruction in Dental Mechanics be taken at a recognized Dental Hospital or School. If any part of such instruction be taken by the candidate as a pupil with a Registered Dental Practitioner, the time required to be devoted to it will be at least twice the time required for the corresponding instruction taken at a Dental School.

*Schools at which Dental Study may be commenced:* Birmingham D. Hospl.; Bristol, Royal Infirmary, Genl. Hospl.; Dublin, D. Hospl. of Ireland; Dundee D. Hospl.; Edinburgh D. Hospl.; Glasgow D. Hospl.; Leeds D. Hospl.; Liverpool D. Hospl.; London, Guy's Hospl.

\* Admissible only in the cases of persons who have complied with the Regulations which came into force in 1928.

D. School, King's Coll. Hospl. D. School, London Hospl. D. School, Univ. Coll. Hospl. D. School, Royal D. Hospl. ; Manchester D. Hospl. ; Newcastle-upon-Tyne D. Hospl. ; Sheffield Royal Hospl. ; Roy. Coll. of Surg. in Ireland ; D. Department of any Univ. of the U.K.

Not all the licensing bodies require students to be registered by the General Medical Council.

### E. RECIPROCAL RECOGNITION

All the States, Presidencies, Provinces, and Colonies in which the registrable medical qualifications specified under A (b), (c) are granted allow practitioners with qualifications registered in the U.K. to register without further examn. There are other Colonies, *e.g.* Tasmania, which recognize British qualifications, but in which at present no qualifications are granted.

### F. POST-GRADUATE MEDICAL STUDIES

#### *British Postgraduate Medical School*

The Athlone Committee of 1921, which was appointed to investigate the needs of medical practitioners and other graduates for further education in medicine in London, reported that the existing provision was widely scattered and lacked adequate organization, and that there was an urgent need for the institution of a post-graduate medical school which should be the centre of a great teaching organization, which would avail itself of London's unique supply of clinical material. In this organization there would be room for all who had a useful contribution to make—the existing special hospitals, medical schools, research institutes and the like.

Later Committees carried on the development of this scheme ; their members including the Presidents of the Royal Colleges of Surgeons and Physicians, representatives of the University of London, of the great London teaching hospitals, of the British Medical Association, and of the Fellowship of Medicine, while among their Chairmen were two successive Ministers of Health, Mr. Neville Chamberlain and Mr. Arthur Greenwood.

The L.C.C. Hospital at Ducane Rd., Hammersmith, was selected as the most suitable for association with the School. The School buildings, which adjoin the hospital, have been provided at the cost of H.M. Govt. The L.C.C. has spent an equivalent sum on those developments and adaptations of the hospital which were considered desirable in view of its association with the School.

The British Postgraduate Medical School receives maintenance grants from H.M. Government. It is a recognized School of the Univ. of London (see p. 211) and the Governing Body is presided over by Sir John Caulcutt, K.C.M.G. A Royal Charter was granted in 1931 and the School was opened by H.M. King George V. on May 13, 1935.

There are at present four Depts. in the School, viz. Medicine, Surgery, Obstetrics and Gynæcology, and Pathology. Each Dept. is in charge of a distinguished Professor and a specialist staff working under his direction.

The School provides for the further education of all Univ. medical graduates and all other practitioners holding qualifications registrable in the United Kingdom.

The hospital has 462 beds. The present School buildings provide the necessary lecture theatres, library and museum. They also include laboratories for research work and for Bacteriol., Morbid Histol. and Biochem. A second block provides laboratories for the Medical, Surgical and Obstetrical Depts. and accommodation for the Professorial staff.

Attached to the hospital is a large Radiological Dept. and accommodation for electrocardiography, and for observations on basal metabolism.

Courses of lectures and demonstrations on special subjects will be provided during the year, but most of the instruction in the School is the ordinary hospital practice. Students have free access to the clinical material of the hospital and attend the daily clinics given by the staff.

Whole time professorial units have been established in all four Depts. of the School, and in addition eminent teachers are invited to give regular clinics and to assume charge of a proportion of the beds.

For post-graduate students who hold qualifications registrable in the U.K. there are a large number of resident posts and, in addition, Clinical Assts. may be appointed from selected students. Facilities will also be provided for graduates who desire to undertake approved research work. An information bureau is maintained at the School and post-graduate medical students can obtain advice and information regarding the opportunities for post-graduate work in London.

Further information may be obtained from the Dean of the School, Ducane Road, Shepherds Bush, W.12.

In London, in addition to the above, the General Hospital Medical Schools provide to a limited extent for qualified practitioners. The *West London Post-Graduate College* at the West London Hospital, Hammersmith, with a staff of regular lectrs. and demrs., the *North-East London Post-Graduate College* at the Prince of Wales' Hospital, Tottenham, and the *London School of Clinical Medicine* at the Seamen's Hospital, Greenwich, as well as certain special hospitals, have arrangements for post-graduate work.

The *Fellowship of Medicine and Post-Graduate Medical Assn.* (1 Wimpole St., London, W.1), formed in 1918, promotes and advertises the provision of facilities for post-grad. med. study in London. In co-operation with 50 London general and special hospitals, post-grad. courses in all the special depts. of med. science are arranged, as well as short intensive courses at regular intervals during the year, including special evening courses for the M.R.C.P. and F.R.C.S. (Final) examns. and personal tuition by a Panel of teachers. Information is given on post-grad. study in Gt. Britain and elsewhere.

Post-graduate courses are also provided elsewhere, notably at Liverpool, Manchester, Edinburgh, and Glasgow.

For information as to open post-graduate scholarships, fellowships, etc., see Appendix II.

# ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND

*Address of the Secy., Examining Board in England, 8-11 Queen Sq., London, W.C.1.* Applications for admission to the Board's examns. should reach the Secy. at least 21 days beforehand. Agency for the sale of Books of Questions set in past years (9d. each, post free rod. ; for 1928 and subsequent years, rs., post free rs. 1d.)—Taylor & Francis, Red Lion Court, Fleet St., London, E.C.4.

Examns. for the Diplomas of *Licentiate* of the R.C.P. of London and MEMBER of the R.C.S. of England (L.R.C.P., M.R.C.S.) are held ordinarily in Jan., April, July, and Oct. Candidates must have passed a Prelim. examn. in genl. edn. recognized by the Board, and must have passed, before commencing the 5 years' curriculum of professional study, Part I. of the Pre-Medical examn. in Chemistry and Physics conducted or recognized by the Board. Part II. of the Pre-Medical Examn. (Elementary Biol.) must be passed not later than the completion of the second term of Professional Study. Before admission to the Professional examns. (known as the First and Final) they are required to produce certificates of having pursued the prescribed courses of study and practice. The First Professional examn. (fee, 10 gs.) comprises: Section I., (a) Anat., including Histol. and Embryol., (b) Physiol., including Bio-Chem.; Section II., Pharmacol. and Materia Medica. A candidate who has passed an examn. in the subjects of Section I. or of either part of Section I. and of Section II. in the examn. for the degree in Medicine conducted by a Univ. recognized by the Board will be exempted from further examn. in such subject or subjects. The subjects of the Final Professional Examn. are: Section I. (fee, 4 gs.), Pathol. (including Morbid Anat., Morbid Histol., Clinical Path.), and Bacteriol.; Section II.—Part I. (fee, 10 gs.), Medicine, including Med. Anatomy, Forensic Med., and Public Health; Part II. (fee, 10 gs.), Surgery, including Surg. Anat. and the use of Surg. Appliances; Part III. (fee, 6 gs.), Midwifery and Gynæcol.

Students of recognized Univs. in England, Scotland, and Ireland, who have passed exams. for a degree in Medicine at their Univs. in the subjects of the First Professional Examn., may enter for a Part, or Parts, of the Final at the expiration of 27 months after passing in Anat. and Physiol., but cannot complete until 57 months of professional study, including 33 months clinical work, have been completed after the date of passing in Anat. and Physiol. on production of the required certificates.

Members of certain recognized Indian, Dominion, Colonial, and Foreign Univs. are admissible to the examns. under special conditions, particulars of which are set out in the Regns. of the Board. The Board also grants Diplomas in Public Health, in Psychological Med., in Ophthalmic Med. and Surg., in Tropical Med. and Hyg., in Laryngol. and Otol., in Med. Radiol., in Anæsthetics and in Child Health. Candidates must hold a Medical qualification registrable in the U.K., or be Graduates in Medicine of a recognized Indian, Dominion, Colonial, or Foreign Univ.



Most of the Universities in the U.K., except Oxford and Camb., admit students who have not matriculated but have satisfied the Examining Board requirements to study for the L.R.C.P., M.R.C.S.

For admission to the *Membership* of the R.C.P. (fee, 40 gs., less Licence fee, if any, already paid) the minimum age is 23, and a candidate must satisfy the Censors Board as to his moral character and conduct and pass an examn. of such nature and extent as may be determined by the Board. If he is not a Licentiate of the College, he must have obtained a Univ. degree of Doctor or Bachelor of Med. which is registrable by the General Medical Council of the United Kingdom. A candidate who has attained the age of 30, and can produce testimonials satisfactory to the Board, may submit published work done by himself in any branch of Medical Science or in General Literature, and if the Censors Board decide that such work is of sufficient merit to excuse the candidate the whole or part of the usual Examn. the Board may modify the Examn. as they think fit.

*Fellows* are elected annually from the ranks of the Members of at least 4 yrs.' standing. (For particulars of the Membership of the R.C.P. application must be made direct to the Secretary, Pall Mall East, London, S.W.1.)

Examns. for the *Fellowship* of the R.C.S. are held twice yearly in May and Nov. Fees, first examn., 8 gs., 2nd, 15 gs., admission to Fellowship (minimum age, 25), 10 gs., for those who are M.R.C.S. Eng. and 30 gs. for those who are not M.R.C.S. The First examn. (in Anat. and Physiol.) is open to M.R.C.S. Eng., and, on production of certain certificates involving work extending over 60 weeks, to (a) candidates who have passed the First examn., Pt. I., for the L.R.C.P. Lond., M.R.C.S. Eng., and (b) members of Univs. recognized under the Regns. of the Board. The Second examn. (in Surgery, including Surg., Anat., and Path.) is open to candidates who have passed the First Examn. and who are *either* (a) Members of the Coll. who can produce satisfactory evidence of having been engaged in the study (or study and practice) of the profession for not less than 6 yrs., *or* (b) Grads. of 4 yrs.' standing in Med. and Surg. in a Univ. recognized by the Council for the purpose. All candidates must have held for not less than 6 consecutive months a post of Resident House Surgeon, or other responsible post in charge of general surgical patients in the wards of a genl. hospital recognized by the Council for the purpose.

All the above examns. and Diplomas are open to Women, subject to the provisions of the Medical Act, 1876, and Bye-laws of the Colleges. (For particulars concerning the Fellowship of the R.C.S. apply to The Director of Examinations, 8/11 Queen Square, London, W.C.1.)

A *Macloghlin Scholarship*, tenable for 5 yrs., value £120 p.a., is awarded annually in July. Open to candidates 16 to 22 yrs. of age qualifying for M.R.C.S. who have not passed a recognized examn. in Chemistry and Physics.

A *Begley Studentship*, tenable for 3 yrs., value £20 p.a., is awarded triennially in April. Next award in 1939. Open to candidates at the examn. in Anatomy and Physiology of the Examining Board in England held in April of the year of award.

Applications to Secretary, Royal College of Surgeons, Lincoln's Inn Fields, London, W.C.2.

ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH,  
ROYAL COLLEGE OF SURGEONS OF EDINBURGH,  
AND ROYAL FACULTY OF PHYSICIANS AND SUR-  
GEONS OF GLASGOW

Joint examns., open alike to men and women, are held in Edinburgh (usually in Oct., Jan., and July) and in Glasgow (usually in March-April) for the *Diplomas in Medicine, Surgery, and Midwifery* of these three bodies. The following are the Inspectors of Certificates—in Edinburgh, The Registrar, 18 Nicolson St.; in Glasgow, The Registrar, Faculty Hall, 242 St. Vincent St.—at least two weeks before.

Examns. for the *Diploma in Public Health* (fee, 12 gs. or for each Part, 6 gs.) are held early in Oct. in Edinburgh and early in March in Glasgow.

*Address*—The Registrar, Triple Qualification, 18 Nicolson St., Edinburgh.

The Royal College of Physicians of Edinburgh may admit to examn. for its single qualification—*Licence*—any candidate on the Medical Register. Fee, 15 gs. Examns. held every month, except Sept. and Oct. Admission to *Membership* (minimum age, 24) is by election. Candidates must hold a Licence of a British or Irish Coll. of Phys. or Degree in Med. of a Univ. approved by the Council, and pass the prescribed examn. unless exempted by the Council from the whole or part of it in consideration of work in any sphere of Med. adjudged to be of high distinction. Fee, 35 gs. A member of 3 yrs.' standing may be elected *Fellow*. Fee, 38 gs., and stamp duty, 25 gs. The College has a Library of 100,000 vols. and Research Laboratory.

*Address*—The Secretary, Royal College of Physicians, Edinburgh.

For admission to the *Fellowship* of the Royal College of Surgeons of Edinburgh candidates must pass an examn. (fee, £20, plus £30 by those who pass. £10 is remitted to Licentiates, in consideration of the fees already paid, or for L.R.C.S. Edin., £40) in : (a) Principles and Practice of Surgery, including Surg. Anat.; (b) Clinical S.; (c) one of the following—including clinical or practical as well as written and oral tests—S. Path. and Operative S.; Ophth. S.; Aural, Nasal, and Laryng. S.; Obst. S.; Gyn.; Adv. Anat.; Dental S. Qualifications for admission to the examn. (which is now open to women): minimum age, 25 yrs.; 2 yrs.' study and practice of the profession after obtaining one of the following, or other approved qualifications in S.: those of R.C.S. Eng., R.C.S.I., R.F.P.S. Glas.; Surgical degrees of the Univs. of the U.K. and Canada, Adelaide, Melb., Syd., N.Z.; L.M.S.S.A. Lond., and L.A.H. Dub. registered under the Med. Act, 1886, Bombay, Lucknow, Madras, Panjab, and such foreign qualifications as may be approved by the President's Council.

Candidates may not appear more than 3 times at the examns. except by express permission of the President's Council.

At the final consideration of the candidate's petition for admission to the Fellowship election is determined by ballot.

*Address*—The Secretary, Royal College of Surgeons, 18 Nicolson St., Edinburgh.

The Royal Faculty of Physicians and Surgeons grants, after examn., a Fellowship which is registrable by the General Medical Council as an additional qualification. For the Fellowship *qua* Physician or the Fellowship *qua* Surgeon, the candidate must pass in Medicine or Surgery as the Primary Subject and an additional subject cognate with Medicine or Surgery respectively must also be taken at the same examn. Candidates are required to be approved by the Council before admission to the Examn. Successful Candidates are later balloted for election by the Faculty and, if elected, are duly admitted *qua* Physician or *qua* Surgeon. The fee for admission to the Fellowship is £50, or for Licentiates of the Faculty, £40. Examns. are held quarterly.

Examns. for the Single Licence of the Faculty, for the Higher Dental Diploma and for the Licence in Dental Surgery are held at regular intervals.

The Regulations respecting the above examns. together with dates of examns. may be obtained on application to the Secretary, Royal Faculty of Physicians and Surgeons, 242 St. Vincent Street, Glasgow, C.2.

## ROYAL COLLEGE OF PHYSICIANS OF IRELAND AND ROYAL COLLEGE OF SURGEONS IN IRELAND

*Address* of Committee of Management of the Conjoint Board—Royal College of Surgeons, St. Stephen's Green, Dublin.

Professional examns. for the *Licences in Medicine, Surgery, and Midwifery* are held by the Conjoint Board in spring, summer, and autumn. Candidates must comply with the requirements of the Gen. Med. Council (v. *supra*) re Prelim. examn. and Registration of students. The First Professional Examn. (fee, £28 : 7s. payable as follows—2 gs. on entering for Pt. I. (a), 15 gs. for Pt. I. (b) at the end of 1st yr., 10 gs. for Pt. II. at end of 2nd yr.) comprises—Pt. I. (a) Biol., (b) Applied Physics and Chem.; Pt. II. Anat., incl. Embryol.; Physiol., incl. Physiological Chem. and Histol. Second (fee, 9 gs.): (1) Mat. Med., Pharmacy, and Therap. (2) Forensic Med., Hyg. and Pub. Health. (3) Pathol., incl. Morbid Anat., Clin. Pathol., and Bacteriol. (4) Ophthalmol. and Aural Surg. Third, or Final (fee, 6 gs.): (1) Med. (2) Surg. (3) Midwif. and Gynæcol. A candidate may enter for all the subjects of this Examn. together, or any one or more separately.

Institutions recognized for instruction in subjects of the First examn. include numerous schools in the U.K.

Candidates who have passed in any of the required subjects at examns. conducted by any Licensing Body recognized by the R.C.P. and R.C.S. may be exempted from further examn. therein.

Examns. for the *Licences* of the R.C.P.I. are held early in Feb., May, and Nov., and at specially appointed times. That for the *Licence in Medicine* (fee, 15 gs., or for Special examn., 20 gs.) comprises Practice

of M., Clinical M., Path., Med. Jurispr., Midw., Hygiene, Therap. It is open to a Med. Practitioner registered by the Gen. Med. Council or on the Register of Saorstát Éireann if the Coll. be satisfied as to his character, courses of study and examns. passed. The examn. for the *Licence in Midwifery* (fee, 8 gs., special, 12 gs.) is open to Registered Med. Practitioners: (a) of the U.K. or of Saorstát Éireann, who have (i.) obtained the Lic. in Med. of the College or have passed the examn. therefor, or (ii.) satisfied the College as to character and as to course of study pursued and examns. passed; (b) of 5 yrs.' standing who have so satisfied the College. Entrants under (b) are exempt from the written examn. Particulars are obtainable from the Registrar, Royal College of Physicians of Ireland, 6 Kildare Street, Dublin.

Examns. for *Membership* of the R.C.P.I. are held in Feb., June, and Nov., and at specially appointed times. Applications for admission should reach the Registrar by 2nd week in Dec., Apr., and Sept. Fee, 35 gs., or for L.R.C.P.I., 20 gs.; extra for Special examn., 10 gs. The examn. is open to Registered Med. Practitioners: (a) who have held for at least a year a Licence in Med. of a College of Physicians of the U.K., or a degree (B. or D.) of any Univ. in the Empire registrable by the Gen. Med. Council; or (b) who hold a foreign qualification to practise Med. and Surg. in their own country, obtained after a course of study satisfactory to the College. The testimony of a fellow or member of the Coll. or a F.R.C.P. Lond. or Edin. as to professional conduct and moral character is also required. The Dipl. of membership carries with it the Licence if this has not been already obtained. Exemption from part of the examn. may, under special circumstances, be allowed by the College.

For admission to the *Fellowship* of the R.C.P.I., which is by election (fee, £35; stamp duty, £25), the candidate must have been a member of the College for 1 yr. Minimum age, 27. It is open to women.

The R.C.S.I. holds examns. (fee, 5 gs.) for a *Licence in Surgery* at the same times as those of the Conjoint Board. They are open at the discretion of the Council to Registered Med. Practitioners who have passed through a course of study and examns. equivalent to those required by the Conjoint Board and an examn. in Arts recognized by the Gen. Med. Council. Fee for Licence, 25 gs., including 5 gs. examn. fee.

The R.C.S.I. also holds examns. for a *Diploma in Midwifery*. Candidates must have a registrable qualification and produce certificates of attendance at Lectures, 6 months' Hospital practice and conduct of 30 labour cases. Fee, 15 gs.

The examn. for the *Fellowship* of the R.C.S.I. is in 2 parts. Fee for each, 5 gs. For admission to the Final part a candidate must be a Licentiate or Graduate in Surg. of a Univ. or licensing body recognized by the Gen. Med. Council. Minimum age, 25. Fee on admission to Fellowship, 40 gs., or for Licentiate of the College, 25 gs.

## SOCIETY OF APOTHECARIES OF LONDON

Incorporated by Royal Charter, 1617. Address—Water Lane, Queen Victoria St., London, E.C.4.

Examns. for the Diploma of Licentiate in Med., Surg., and Midw.

(L.M.S.S.A.) are held in London, the Pre-Medical Examn. in Chem., Physics, and Biol., and the Primary examn. in Materia Medica and Pharm., Anat., Physiol., and Histol. in Jan., April, July, and Oct., the Final, monthly, except in Sept. Fees: Pre-Med., 5 gs.; Primary and Final, 20 gs. For admission to either, certificates are required showing in detail the course of Medical study pursued, with particulars of instruction received, hospital practice attended, operations performed and offices held. The course covers 5 yrs. from the date of registration as a medical student. Exemption from the Pre-Med. or Primary may be obtained by passing equivalent examns. recognized by the Society.

Examns. for Diploma of Mastery of Midwifery (M.M.S.A.) are held in May and Nov. Special experience in Obstetrics, ante-natal, and infant welfare is required. Copies of Regns. and necessary schedules may be obtained from the Registrar.

### ROYAL COLLEGE OF VETERINARY SURGEONS

*Address*—10 Red Lion Sq., London, W.C.1. The Royal College is the examining, diploma granting, and registering authority. *Affiliated Colleges* (for teaching purposes)—Royal V. College, Camden Town, London, N.W.1; The V. School of the University, Liverpool; Royal (Dick) V. College, Summerhall, Edinburgh; The V. College, Buccleuch St., Glasgow; The V. College of Ireland, Ballsbridge, Dublin.

A candidate for the *Membership* must, after passing an examn. in general education entitling him to admission to a faculty in a British Univ., attend courses in one of the Affiliated Colleges during 5 yrs. as follows: 1st year (from which exemption is given under certain conditions to graduates in Arts, Sci., or Med.); Chem. and Elem. Physics; Biol., Elem., Zool. and Botany, Animal Management. 2nd year: Anat. of Dom. Animals; Physiol. and Biochem.; Histol. and Embryol.; Animal Management. 3rd yr.: Anat.; Pharmacol. and Therap., Toxicol., Practical Pharmacy; Vet. Hygiene, Dietetics and Animal Husbandry. 4th yr.: V. Pathol., Bacteriol., etc., Clin. Pathol., Parasitol., V. Med. incl. Clin. Parasitol., V. Surg. Clin. Instrn. 5th yr.: V. Med., Sp. Therap., Meat Inspection, V. Surg., Obstet., Jurispr. Clinic. An examn. (fee, 6 gs.) is held at the end of each year's course.

Qualifications for *Fellowship*: 2 yrs.' practice after membership, and a thesis on results of original research followed by oral and, if deemed necessary, written and practical examns. Fee, 15 gs.

The examn. for the *Diploma in V. State Medicine* is open to holders of M.R.C.V.S. after a special course at a V. School and training under a County or Municipal V. Inspector. Fee, £5: 5s.

The examn. for the *Diploma in Tropical V. Medicine* is also open to holders of M.R.C.V.S. after a special course. Fee, £5: 5s.

Matriculated students of London or Edinburgh Univ. may sit for the Internal Degrees of B.Sc. and D.Sc. in Vet. Science. Matriculated students of the Liverpool School may take the examns. for the Degrees of B.V.Sc. and D.V.Sc. Holders of the M.R.C.V.S. may also enter, after a post-graduate course, at the Univ. of Manchester, for the Dipl. in Vet. State Medicine.

## THE ROYAL SANITARY INSTITUTE

Founded 1876. Incorporated 1888. *Address*—90 Buckingham Palace Road, London, S.W.1. Branches in S. Africa, New Zealand, and New South Wales, and Examination Boards in all parts of the British Dominions.

The Institute is a composite body, representative of the various sciences allied to sanitation and public health, and its members (nearly 6000) include medical men, engineers, architects, municipal officers, etc.

Qualifications for (1) Membership: evidence of attainments of standard indicated by certain of the Inst.'s own certificates, a University Degree, or Dipl. of a Med. Corporation recognized by the Council, San. Science certif. of Surveyors' Instn., Testamur of the Instn. of Munic. and County Engineers, and membership of certain other professional bodies; (2) Associateship: one of the Inst.'s certificates or other evidence of attainments of similar standard. Annual Subsn. for Members, 1½ to 2 gs.; Associates, 15s. to 1 g. Fellows are elected from Members of at least one year's standing. Authorized signatures: M.R.San.I., A.R.San.I.

Examns. held by the Institute: (1) Inspectors of Meat and other Foods; (2) Smoke Inspectors; (3) Sanitary Sci. as applied to Buildings, etc.; (4) Health Visitors; (5) School Hyg., including Elem. Physiol.; (6) Tropical Hyg. for San. Inspectors; (7) General Hyg. and Sanitation; (8) Food Hyg.; (9) San. Inspectors (overseas); (10) Nursery Nurses; (11) Advanced Child Study. The Institute's Certificates are recognized by Public Authorities as qualifications for appointments.

The examns. are held in London and in numerous other towns in the U.K. and in Canada, Australia, New Zealand, Tasmania, Hong-Kong, West Indies, British East Africa, British West Africa, Sudan, Ceylon, and Cyprus. Examns. are held in South Africa, Bombay, Rangoon and Straits Settlements, in co-operation with the Governments.

Courses of Lectures and Demonstrations are held in London in spring and autumn.

The Parkes Museum, founded 1876, became part of the Inst. in 1888. It serves as a public demonstrating school. The Inst. has a large Library, including many foreign works. Sessional meetings, about eighteen yearly, are held in London and other large towns. See also App. III. A. XI. 6.

Congresses and exhibitions have been held almost every year since 1877.

*Publications.* *Journal*, monthly, *Kalendar*, yearly, and numerous pamphlets.

## THE ROYAL INSTITUTE OF PUBLIC HEALTH AND HYGIENE

Founded 1886. Incorporated by Royal Charter 1892. *Address*—28 Portland Place, London, W.1. Laboratories: 23 Queen Square, London, W.C.1.

The Institute provides courses of Instruction qualifying for admission

to the examinations for the Degrees and Diplomas in Public Health of the Univs. and Medical Corporations. Fees for Laboratory Instruction: 6 months, 35 gs.; P.H. Admn., 15 gs.; Fever Hosp. Admn., 4 gs.; Special Lab. Fees, Chem. or Bact., according to requirements. Courses of free lectures are also given in the Lecture Hall of the Inst. Special lectures open to Fellows and Members. Subscription, 1 g. p.a.

The Laboratories are recognized as a place of research in connexion with the Bert Memorial Fellowships. Researches and Clinical Examns. are undertaken for Public Bodies and Med. Practitioners. Culture media of all descriptions are supplied.

Reference Library containing all important P.H. Works, Govt. Reports, etc.

*Publication.* *Journal of The Royal Institute of Public Health and Hygiene*, monthly, 2s.

## THE INSTITUTE OF HYGIENE

Founded 1903. Incorporated by Royal Charter 1929. *Address*—28 Portland Place, London, W.1. *Telegrams*—Saluminate, Wesdo, London.

Examns. for Certificates and Diplomas (advanced) are held at various centres in the U.K. on the second Saturday of Jan. and of June. Subjects: General H., School H., Mothercraft and child Welfare, Fee, 1 to 2 gs. Complete syllabus with list of Text Books, 1s. Specimen questions, 1d.

The Certificate and Diploma in General Hygiene qualify for nomination as Associate and Member (M.I.H.) respectively.

Public Lectures are regularly given throughout the year in the Lecture Hall. The Inst. conducts analytical and bacteriological investigation, and has a Museum of Hygiene open to the public free throughout the year.

## I 2.

## THE INSTITUTION OF MINING AND METALLURGY

Founded 1892. Incorporated by Royal Charter 1915. Objects: Advancement of the Science and Practice of Mining in respect of minerals other than coal and of Metallurgy in respect of metals other than iron; and to afford a means of facilitating the acquisition and preservation of that knowledge which pertains to the profession of a Mining Engineer and Metallurgist. *Address*—Salisbury House, Finsbury Circus, London, E.C.2. *Telegrams*—"Minanmet, London."

Qualifications for Membership (M.Inst.M.M.): minimum age, 30 having been for at least 5 yrs. in full charge of important mining or metallurgical operations or in practice as a Consulting Mining Engineer

or Metallurgist; if born after Dec. 31, 1894, a regular course of at least 3 yrs.' study in pure or applied science. Qualifications for Associateship (Assoc.Inst.M.M.): minimum age, 25, having been engaged in mining or metallurgical pursuits for not less than (a) 2 yrs. if a graduate of the R.S.M. or other mining college or school of equivalent standing; (b) 3 yrs., or such longer period as Council may determine, if a graduate of some other college or school; (c) 6 yrs. in other cases. The minimum age for admission as student is 18. A candidate for either Membership or Associateship must be actually practising his profession at the time, and must satisfy the Council as to his fitness for admission. The Council may elect a candidate as Member in consideration of his position and attainments in Science or Technology. Entrance fee and annual subsn. for Member, 5 gs. each; Assoc., 3 gs. Students' subsn., 1 g. (over 25—1½ g.) p.a. and no entrance fee.

General meetings for discussion of papers monthly, Oct.-May. Large Library, reading- and writing-rooms. Publications: *Bulletin*, monthly (£1:11:6 p.a.), and *Transactions* annually (£1:11:6 p. vol.); may be purchased by non-members. Gold medals, etc., are awarded by the Instn. for promoting its objects. *Secretary and Editor*: Charles McDermid.

## EMPIRE COUNCIL OF MINING AND METALLURGICAL INSTITUTIONS

At an Empire Mining and Metallurgical Congress held at the British Empire Exhibition, 1924, it was resolved to form a Council to promote intercommunication and co-operation between the constituent institutions, to create and maintain a higher standard of technical efficiency and professional status, to convene future Congresses, etc. *Secretary-General*—Charles McDermid. *Address*—Salisbury House, Finsbury Circus, London, E.C.2. *Telegrams*—"Minanmet, London."

## THE INSTITUTION OF MINING ENGINEERS

Established 1889. Incorporated by Royal Charter 1915. *Address*—Salisbury House, Finsbury Circus, London, E.C.2. *Telegrams*—"Instimini, Phone, London."

The Institn.'s objects and purposes are "the advancement of coal and iron-ore mining and allied industries, and the promotion of the acquisition of the knowledge necessary for the control and direction of mining operations in relation to stratified deposits." It is a federation of the Manchester Geol. and Mining Soc.; the Midland Counties Instn. of Engineers; the Midland Inst. of Mining Engineers; the Mining Inst. of Scotland; the North of England Inst. of Mining and Mech. E.; the North Staffs. Inst. of Min. E., and the South Staffs. and Warwickshire Inst. of Min. E. Membership is obtained by nomination through the Council of one of the Federated Institutes.

Candidates for admission as *Members* (M.I.Min.E.) must be not less than 30 yrs. of age and come within one of the following conditions:



(a) By education and training be in the opinion of the Council a fully qualified Mining Engineer; hold the statutory qualification of a Colliery Manager, or possess such other qualifications as the Council may prescribe; and in either case have held for at least 5 yrs. such responsible position in the mining profession as to meet the approval of the Council; or (b) Be a person whose position and attainments in Science or Technology justify, in the opinion of the Council, his election as a Member.

There are also Hon. Members, Associate Members, Students, and Associates.

*Publications.* *Transactions* (in which are included procdgs. of Federated Insts. as well as those of the Instn. itself), 94 vols. Price to non-members, 36s. each for current volumes; back volumes at varying rates. *Secretary and Editor*: Charles McDermid.

## THE IRON AND STEEL INSTITUTE

Founded 1869. Incorporated by Royal Charter 1899. *Address*—28 Victoria St., London, S.W.1. *Telegrams*—Irosamente, Sowest, London.

*Qualifications*: (1) for Membership—minimum age, 21; being practically engaged in iron or steel works or being a person of scientific attainments in metallurgy or specially interested in the applications of iron and steel. Entrance fee, 2 gs.; annual subsn., 3 gs. (if resident abroad, 2½ gs.). (2) For Associateship—maximum age, 24, or, in the case of members of an approved technical society or institute, 30; being (a) Student of Metallurgy taking a course at a Univ., Univ. College, or Tech. School, or (b) pupil or apprentice in metall. or engin., or (c) employed in some practical or scientific capacity in met. or engin. works. Annual subsn., 1 g. Initials: M.I.S.I., A.I.S.I.

Meetings in May and Sept. for reading and discussion of papers. Library, reference and lending; Information Bureau; service not restricted to members.

*Andrew Carnegie Research Fund*—£20,000, interest on which is used for grants to assist metallurgists and students (maximum age 35) in conducting researches.

*Williams Prize Fund*—£3000, interest on which is applied as a money award for the best practical paper, on manufacture or treatment of iron or steel, presented in any one year.

*Publications.* *Journal* in 2 vols. annually; *Carnegie Scholarship Memoirs*, 1 vol. annually; *Bulletin*, monthly (a survey of current tech. literature); *Special Reports*, at irregular intervals (reports of Tech. Committees).

## THE INSTITUTE OF METALS

Founded 1908. Incorporated 1910. *Address*—36 Victoria St., London, S.W.1.

Local Sections in Birmingham, Glasgow, London, Newcastle-on-

Tyne, Sheffield, Swansea ; at Manchester, in association with Manchester Metallurgical Society.

The Institute aims at " the advancement of the non-ferrous metals industry and the associated sciences," by the co-operation of manufacturers, users, and scientific investigators. It concerns itself rather with the manufacture and working of metals and alloys and with their properties and modes of treatment and testing than with the production of metals from their ores. The leading features of its work are the holding of sessions in the spring and autumn and an annual " May Lecture " given by some acknowledged master of his subject ; in addition a special " practical lecture " is given annually in the autumn by an expert non-ferrous technician.

Qualifications for Ordinary Membership (M.Inst.Met.) : minimum age, 23 ; occupying a responsible position, being either engaged in the manufacture, working, or use of non-ferrous metals and alloys, or a person of scientific, technical or literary attainments connected with or interested in the metal trades or with the application of non-ferrous metals and alloys. Limits of age for Student Members, 17-26. Entrance fee and annual subsn. for Ordinary Members, 2 gs. and 3 gs. Students, annual subsn., 1 g. (no entrance fee). Assoc. members of local sections pay a nominal subscription and do not receive the *Journal* or have privileges of membership of the parent Institute. *Fellows* (F.Inst.Met.) are limited in number to 12. They are chosen by Council for having rendered eminent service to the Inst.

The *Monthly Journal* contains *Metallurgical Abstracts* and domestic news ; issued to members only. Three bound vols. of the *Journal* are pubd. each year ; price to non-members, £4 for the 3 (post-free).

The *Special Library* contains all the current journals of interest to those concerned with metals.

## THE INSTITUTION OF PETROLEUM TECHNOLOGISTS

Incorporated 1914. Address—Aldine House, Bedford St., Strand, London, W.C.2.

Conditions of admission :

A. *To Members.* (M.Inst.P.T.) Candidates (a) must (1) be not less than 28 years of age, (2) have received a good general and scientific education, (3) have held for at least 5 years a responsible post in petroleum technology, and (b) must be in the opinion of the Council fit and proper persons to belong to the institution.

B. *To Associate Members.* (A.M.Inst.P.T.) Candidates must (1) have received a good general and scientific education, (2) have had at least 2 yrs.' practical experience as petroleum technologists.

C. *To Students.* (Stud.Inst.P.T.) Candidates must (1) be 18-25 yrs. of age, and (2) be intending to qualify for the profession of petroleum technologist.

D. *To Associates.* (A.Inst.P.T.) Candidates must be connected

with some branch of petroleum technology, although not eligible for Membership or Associate Membership.

Annual subscriptions: Students, 1 g., Associates, 2 gs., Assoc. members, 2½ gs., Members, 3 gs.

*Publications.* *Journal*, 12 Parts per annum (monthly). Annual Subscription, £3 : 13 : 6 (free to members). *Report of Standard Methods of Testing of Petroleum and its Products*, 7s. 6d. (Revised edition, 1935.) *Measurement of Oil in Bulk*, Pt. 1. *Standard Weights and Measures*, 2s. 6d. *Petroleum—Twenty-Five Years' Retrospect*, 7s. 6d. (Pubd. 1935.) *Proceedings, World Petroleum Congress, 1933*. 2 vols., £3 : 13 : 6. *Petroleum Technology, 1935* (Pubd. 1936 and then annually), 7s. 6d.

### 13.

## MINISTRY OF THE CHURCHES

For those desirous of being admitted to the Ministry of the Churches, a University Degree has now become almost an essential preliminary qualification. A number of Univs. have faculties of theology and grant degrees in that subject, while many have theological colleges associated with, or recognized by, them (v. General Index—Theological Colleges). Facilities are offered by way of scholarships and grants to suitable candidates by various denominations.

No succinct statement of the qualifications required can be provided in the compass of this appendix. Intending entrants should address the central authority of the Church to which admission is desired (v. below), or consult their own minister or priest.

Church of England: The Central Advisory Council of Training for the Ministry, 8 Dean's Yard, London, S.W.1.

Roman Catholic Church: The local Bishop or the Provincial of any Religious Order which has houses in Gt. Britain and Ireland.

Congregational Church: Congregational Union, Memorial Hall, Farringdon St., London, E.C.4.

Baptist Church: The Secretary, Baptist Union of Gt. Britain and Ireland, Baptist Church House, 4 Southampton Row, London, W.C.1.

Methodist Church: Central Buildings, Westminster, London, S.W.1.

Presbyterian Church of England: General Offices, 15 Russell Square, London, W.C.1.

Church of Scotland: The Secretaries, Committee on Education for the Ministry, Church of Scotland Offices, 121 George Street, Edinburgh, 2.

Presbyterian Church in Ireland: The Regius Professor of Divinity, Trinity College, Dublin.

## 14.

## THE CHARTERED INSTITUTE OF PATENT AGENTS

Founded 1882. Incorporated by Royal Charter 1891. *Address*—Staple Inn Buildings, London, W.C.1.

Under the Patents and Designs Acts, 1907 to 1932, it is illegal to practise as a Patent Agent without being duly registered. The Register of Patent Agents is kept by the Institute in accordance with the Board of Trade's Rules of 1932.

*Examinations* are conducted or recognized by the Inst. for (a) the Registration of P.A.'s and (b) the admission to the Inst. of Fellows, Associates, and Students. The Inst. recognizes as Preliminary examns. those of Matricn. standard.

The Inst. holds each year (i.) Intermediate (fee, 2 gs.), and (ii.) Final examns. (fee, 3 gs.), qualifying for Registration. Latest date for entry, March 1. Subjects of (i.): A. Patent Law, Patent Agents' Practice; B. Designs, Trade-marks, Foreign Law, Manufactures, Science, and Drawings. Subjects of (ii.): A. Preparation of Specifications for British Colonial and Foreign Patents; B. Interpretation of British Specifications; C. Patent Agents' Practice. A candidate for admission to (i.) must have passed one of the approved Prelim. examns. and (a) have served 3 yrs. as a pupil or technical asst. to one or more registered P.A.'s or (b) have so served for 2 yrs. *and* attended a 2 yrs.' course at an approved Tech. Coll. or had 2 yrs.' approved practical experience, or (c) have so served for 1 yr. *and* taken a Univ. degree in the U.K. or attended a 3 yrs.' course at an approved Tech. Coll. or had 3 yrs.' approved practical experience; or (d) have served in the Patent Office for 5 yrs. on the Examining Staff (Patents), or (e) be entitled to practise as a Solicitor or (Scotland) Law Agent.

Candidates for admission to (ii.) must have passed (i.) and have served as above for a period of 2 yrs. in addition to terms under (a), (b), or (c) above, as case may be, or be entitled as in (e).

Minimum age for membership of the Inst.—25. Other qualifications: For Fellowship, (a) having ceased to be an Associate by reason of being in practice on own account as P.A.; (b) having passed Final examn.; (c) special dispensation in case of candidate specially approved by the Council. For Associateship (not applicable to person registered as a P.A.): (a) being qualified and able by reason of connexion with the Law, Science, or the Arts, to advance the objects of the Inst.; (b) being pupil or asst. of 3 yrs.' standing of a Fellow or a Student attached to the Inst. and having passed Interim. Examn. For Foreign, or for British Oversea Membership: having been established in practice as P.A. for a sufficient time, not less than 3 yrs. in a British Dominion, Colony, or Dependency or in a Foreign Country and neither having an office nor practising in the U.K.

Minimum age for "Studentship"—18. Other qualifications: being

an articulated pupil of a Registered P.A. and having passed an approved Prelim. examn.

Entrance fee for Fellow, 3 gs. ; Assoc., 2 gs. ; Foreign, and British Oversea Members, 2 gs. ; Student, 1 g. Annual subs. : Fellows, 3 gs. ; Foreign, and British Oversea Members, 2 gs. ; other classes, 1 g. Fellows' initials : C.P.A.

## 15.

## THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

*Address*—17 Bloomsbury Sq., London, W.C.1.

Examinations (open to women as well as men) are held in London and Edinburgh in Jan., April, July, and Oct. : the *Prelim. Sci.* examn. (fee, 6 gs.) followed by either the *Chemist and Druggist Qualifying* examn. (fee, 12 gs.), for registration under the Pharmacy Act, 1868 ; or the *Pharmaceutical Chemist Qualifying* examn. (fee, 12 gs., Jan. and July) for registration as Pharmaceutical Chemist (Ph.C.) under the Act of 1852. No person can enter for the Prelim. Sci. examn. who is not a *Registered Apprentice or Student*, and this involves passing a matricn. or other examn. which admits to a course of instruction for a Univ. degree. The examn. must include Maths. Courses of instruction are held in Biochemical Analysis and arrangements are made for a limited number of students to study biological methods of assay.

The College is a School of the Univ. of London in Pharmacy (*see* p. 212).

## 16.

## INSTITUTE OF PHYSICS

Founded 1918 by co-operation in the first instance of four Societies, and incorporated under the Companies' Act in 1920. The participating Societies are : The Physical Society, the Faraday Society, the Royal Meteorological Society, and the British Institute of Radiology. *Address*—1 Lowther Gardens, Exhibition Rd., London, S.W.7.

Members are of two classes : *Associates* (A.Inst.P.) and *Fellows* (F.Inst.P.). Qualifications for Associateship are : (i.) the passing of an examn. held by the Inst. or a recognized equivalent examn. and (ii.) a yr.'s approved research or industrial or other professional experience. The examn. is excused to candidates with qualifications approved by the Board. A candidate for Fellowship must, in addition to his associateship academic qualifications, have had a total of 5 years' experience in any position requiring a thorough knowledge of Physics. Entrance fees, 1 g. and 2 gs. Annual subsns., 1 g. and 2 gs. All classes of membership are open to women on the same terms as to men. Subscribership is open to any persons with an interest in physics ; annual subsns., 10s. 6d.

Persons over the age of 16 may be admitted as Students, provided that they have passed a recognized prelim. examn. and are students at certain Univs. or schools, or pupils of a Fellow of the Institute. Annual fee, 5s.

Local Branches have been formed in London and Home Counties, Manchester, the Midlands, Australia, and India.

An *Appointments Register* and a *Panel of Consulting Physicists* are maintained.

A series of Lectures on "Physics in Industry" was instituted in 1922. Part I., published by Henry Frowde and Hodder & Stoughton in their "Oxford Technical Publications"; II., III., IV., and V., Oxford Univ. Press. All later lectures published by Institute. *Journal of Scientific Instruments* (in co-op. with Nat. Phys. Laboratory) (monthly, 2s. 6d., subsn. 3os. p.a., payable to the Inst. of Physics); free to Fellows and Associates; Students, 1os. 6d. p.a.; Subscribers, 15s. p.a.

## 17.

## INSTITUTE OF PUBLIC ADMINISTRATION

Established 1922 to develop the Civil Service and other Public Services (both national and local) as a recognized profession, and to promote the study of Public Administration in this and other countries. *Offices*—Palace Chambers, Bridge St., Westminster, S.W.1.

Regional Groups have been founded in Birmingham, Belfast, Bristol, Manchester, Edinburgh, Liverpool, Leeds, Sheffield, Newcastle, Glasgow, Hull, Pretoria (S. Africa), Adelaide (S. Australia), Melbourne (Victoria), Sydney (N.S.W.), and Southern Rhodesia. Monthly lectures are held in the towns where Groups have been already founded, and at Montagu House, Whitehall, London. Courses of lectures are also given in connexion with the Univs. of Birmingham, Manchester, Liverpool, Leeds, Sheffield, Glasgow, and London. A Conference is held every summer at either Oxford or Cambridge, and two every winter, one in London and one in the Midlands. Subscription—Fellows, 2 gs.; Members, 1 g.; Associates,  $\frac{1}{2}$  g. per annum. The *Journal, Public Administration*, is published quarterly by the Institute (*annual subs.* 12s. 6d. post free).

## 18.

## CHARTERED INSTITUTE OF SECRETARIES

OF JOINT-STOCK COMPANIES AND OTHER PUBLIC BODIES

Founded 1891. Incorporated by Royal Charter, 1902. *Address*—6 London Wall, London, E.C.2. Branches at Birmingham, Bristol,

Hull, Liverpool, Manchester, Newcastle-on-Tyne, Nottingham (for N.E. Midlands), Bradford and Leeds (for West Yorks), Sheffield, Stoke-on-Trent, Cardiff, Swansea, Edinburgh, Glasgow, N. Ireland (Belfast) ; and overseas in Canada (London, Ont., Montreal, Ottawa, Toronto, Vancouver, B.C.), Australia (Brisbane, Melbourne, and Sydney), South Africa (Johannesburg) and New Zealand.

Examns. are held in London and at various other places both at home and abroad in June and Dec. A candidate must either enter into Articles of Clerkship with a member of the Inst. for a period of 4 yrs. (if a graduate, 3 yrs.) or obtain registration as *Student* in course of preparation for the secretarial profession.

The *Preliminary* examn. (fee, 1 g.; min. age, 16) comprises (i.) English (Grammar, Compn., Dictn.), (ii.) Arith., (iii.) Engl. Hist. or Geog., and (iv.) one of Hist. or Geog. (if not taken under (iii.)), Latin, French, German or Spanish, or Algebra and Geometry. Approved examns. of matricn. standard exempt from the Prelim. examn.

For admission to the *Intermediate* (fee, 2 gs.) a candidate must have passed or been exempted from the Prelim. Graduates in Arts, Commerce, Law, or Sci. of recognized Univs. in the U.K., S. Africa, McGill, Montreal, Tor., W. Ont., Mannt., Melb., Q'ld., Syd., and those holding Diplomas in Econ. or Comm. of Q'ld. or Sydney Univ., grads. in Comm. of Dublin (Trin. Coll.), those holding Diplomas in Comm. of Adel. Univ. and persons who have passed the Final of the Council of Legal Education, Law Soc., Scottish Law Agents Soc., Inst. C.A., Chartd. Acctts. of Scotland, Inst. of Chartd. Acctts. in Ireland, Soc. of Inc. Acctts. and Audrs., Ch. Ins. Inst., Inst. of Bankers, Inst. Bankers, Scotland (member), Inst. Bankers, S. Africa, Inst. C.A. Aust., Commw. Inst. Acctts., Fedl. Inst. Acctts., Inst. Inc. Acctts., N.S.W., Ass. Acctts. Austr., New Zealand Soc. of Acctts., are allowed a pass in the Intern. on attaining the usual standard of proficiency in any 3 of the specified examn. subjects they select approved by the Council, but must pass the Final as a whole before election to membership.

For admission to the *Final* (fee, 2 gs.; min. age, 21) a candidate must have passed the Intern. The subjects are : Econ., Sec. practice and duties (2 papers), Acctts., Merc. Law, an approved foreign lang., or Banking and Exchange, and one special law subject (*e.g.* Companies or Insurance).

*Associate Membership* (A.C.I.S.) can be obtained after 6 yrs.' service with a Public Coy. or Body ; *Fellowship* (F.C.I.S.), after 8 yrs.', of which 3 have been as Secy. or Asst. Secy. A Fellow may describe himself as a Chartered Secretary ; so likewise may an Associate if having passed the Final Examn. he holds or has held office as a Secretary, Asst. Sec., Chief Acct., Registrar or Chief Clerk of a Company, or other body corporate.

*Publications* : *Yearbook* ; *Secretarial Practice* (12s. 6d.) ; *Powers of Attorney* (5s.) ; *The Secretarial Primer* (5s.) ; *The Secretary* (monthly, 1s.).

## THE CORPORATION OF CERTIFIED SECRETARIES

Incorporated 1923. *Address*—30 Fitzroy Square, W.1.

Examns. are held in London and various provincial centres in May and Nov. each year. Foreign and Colonial centres arranged as required.

*Preliminary Examn.* (fee, 1 gn., minimum age, 15) comprises English, Geog. or Hist. (if not taken under 3) or Latin, or French or German, or Arithmetic, or Italian or Spanish, or Afrikaans, or Algebra or Geom. (1 subject), or Shorthand (60 w.p.m.). Exemption from the Prelim. Examn. may be granted provided the candidate is over 15 yrs. and produces evidence of having passed an examn. equivalent thereto, or who, owing to age and experience, satisfies the Council regarding the Examn. Bye-laws from time to time in force.

For admission to the *Intermediate* (fee, 1½ gs.) a candidate must have passed or been exempted from the Prelim. The subjects are Sec. Practice, Acctcy., English, Merc. Law, Commercial Arith. or Foreign Lang., Company Law or other branch of Law. The subjects of the *Intermediate Hospital Administration Examn.* are : (a) Hospital Administration : (1) Book-keeping and Accounts ; (2) Organization and Management ; (3) Secretarial Practice ; (4) Purchase of Supplies ; (5) Law. (b) Commercial Arithmetic. (c) Mercantile Law. The subjects of the *Intermed. Local Govt. Admin. Examn.* are : Book-keeping and Accounts as applied to District Councils and other Local Authorities, Commer. Arith. or Foreign Lang., Outlines of Statistics, Outlines of Econ., Secretarial and Office Practice, Genl. Principles of Local Govt. Organization and Finance.

For admission to the *Final* (fee, Pts. I. and II., 1½ gs. each, complete, 2 gs.) a candidate must have passed, or been exempted from, the Prelim. and Interim. examns. The subjects are : Pt. I. (1) Sec. Practice, incl. Law, Conduct of and Procedure at meetings, (2) Acctcy., (3) Company Law (or other branch of Law) ; Pt. II. (4) Econ., (5) Merc. Law, (6) Banking and Exchange. The subjects of the *Final Hospital Admin. Examn.* are : Pt. I. (a) Hosp. Admin. : (1) Acctcy., (2) Law, (3) Appeals, (4) Organ. and Management. Pt. II. (b) Econ., (c) Hosp. Admin. : (1) Constructions, Renewals and Repairs, (2) Purchase of Supplies. (d) Law and Conduct of and Procedure at Meetings. The subjects of the *Final Local Govt. Admin. Examn.* are : Pt. I. Local Govt. Finance and Acctcy., Local Govt. Law (a), Secretarial and Office Practice. Pt. II. Local Govt. Law (b), Mercantile Law, Law and Conduct of and Procedure at Meetings.

*Membership.* A Fellow (F.C.C.S.) must be over 24 yrs. of age, an Associate (A.C.C.S.) over 21. Each may describe himself as a Certified Secretary. Registered Students, who must pay a registration fee of 10s. 6d.

*Fees.* Entrance, 1 g. ; Fellow, 1½ gs. ; Associate, 1 g.

*Publications* : *Year Book*, 2s. 6d. p.a. ; *The Certified Secretary* (bi-monthly, 1s. per copy, or 6s. 6d. p.a. post free).



## 19.

## THE CHARTERED SURVEYORS' INSTITUTION

Founded 1868. Incorporated by Royal Charters, 1881 and 1921.  
*Address*—12 Great George St., Westminster, S.W.1. *Telegrams*—  
 Surveyable, Parl., London.

Professional examns. (fees: Interm.—2 parts—2 gs. and 3 gs., Final, 5 gs.; Direct Fellowship, 5 gs.; applications receivable in Aug.) are held in March in London, Glasgow, and Dublin, and a Prelim. examn. (fee, 1½ gs.) in Jan. in the same places and Manchester.

The *Preliminary* comprises Elem. Maths., Hist., Compn., and one of: Latin, French, German, Inorg. Chem., Botany, Geol. Candidates are expected to reach the standard of the Oxford and Cambridge School Certificate examn. Candidates are exempt from the Prelim. if they have passed an approved examn. of matricn. standard, Inst. C.E. Studentship, Prelim. of Inst. C.A., Law Soc., Auctioneers' and Estate Agents' Inst. or Sandhurst or Woolwich.

For admission to the (i.) *Intermediate* (min. age, 19), a candidate must, unless at an approved place of instruction (see below), be actually engaged in an office where he has opportunities of obtaining practical experience in the profession. The subjects are grouped thus: I. chiefly Land Agency, II. chiefly Valuation, III. chiefly Building or chiefly Quantities, IV. chiefly Mining. A candidate may select any one of these subdivisions. For the (ii.) ordinary *Final* examn. the candidate must have passed the Interm. in the subdivision which he takes for the Final. The (iii.) *Direct Fellowship* examn. (min. age, 30) may be taken, without having passed (i.) or (ii.), by a candidate who has been in practice on his own account for 5 yrs. The (iv.) *Special Degree Holders* examn. may be taken, on the same conditions as to professional training as (i.), by a candidate holding a Univ. degree in subjects bearing upon the surveying profession. All candidates for (i.), unless they have passed one of the exempting examns., must have passed the Prelim. Examn. or, if over the age of 25, a special test of general education. Applications must be received by end of Aug.

Candidates between the ages of 18 and 21 who have passed the Prelim. or Exempting examn. are recommended to become Students. They must be pupils or assistants of a Surveyor or be taking a full-time course approved by the Council as bearing on the profession of Surveyor, at one of the Univs. of the U.K. or their Affiliated Colls., or one of the following: Harper Adams Agr. Coll., Newport; Univ. Coll., Southampton; Coll. of Estate Management; Midland Agr. Coll.; Seale-Hayne Agr. Coll., Newton Abbot; the School of Architecture, Regent Street Polytechnic; and, under certain conditions, the Northern Polytechnic, Holloway, N.

For election as *Professional Associate* (P.A.S.I.) a candidate must have passed (iv.) or (i.) and (ii.), and be in practice as a Surveyor on his own account or employed as an Asst. in a Surveyor's office. For the Fellow-

ship (F.S.I.) a candidate must have passed either (i.) and (ii.) or (iii.) or (iv.), and had 5 yrs.' experience as, and still be, either a Principal or Responsible Manager in an established business or a Head of a Dept. in the office of a public body reporting direct to his Board or Council.

*Scholarships*: Offered annually, value £100 for 3 yrs., to enable the scholar to read at Cambridge for the B.A. degree. The course must be taken from certain subjects prescribed by the Instn. Applns. should be submitted not later than the end of Oct. For further particulars apply to the Secretary. See also App. II. (Travelling).

## 20.

## TEXTILE INSTITUTE

Founded 1910. Incorporated by Royal Charter 1925. *Address*—St. Mary's Parsonage, Manchester, 3.

The *Associateship* (A.T.I.) implies, in addition to Inst. membership for not less than 6 mos. prior to appln., attainments tested by examn. in connexion with recognized training instns., the passing of the Inst.'s Examn. in Genl. Textile Technology, and a period of approved occupation. The *Fellowship* (F.T.I.) involves systematic study or research, with publication, subsequent to Associateship, and a further period of approved occupation.

## 21.

EDUCATION AND TRAINING OF TEACHERS  
IN ENGLAND AND WALES

Courses of training for the teaching profession, recognized and aided under the Regulations of the Board of Education (Whitehall, London, S.W.1), are provided in Training Colleges and in the Training Departments which form part of the work of all Univs. in England and of the constituent Colleges of the Univ. of Wales and the Univ. Colleges of Exeter, Nottingham, Southampton, Hull, and Leicester.

A person who desires to enter a Training College as a *recognized student* or as a *private student* intending to follow a course qualifying him for recognition as a Certificated Teacher must (i.) be over the age of eighteen, or seventeen if he is commencing a four-year course which includes work for a University Degree, on the first day of the Academic year for which he is admitted to the College, or, if that day is the 1st August and the College authorities think fit, within two months thereafter; (ii.) have passed before admission a First Examination for Secondary Schools or some approved examination of at least equivalent

standard (*e.g.* the Matriculation Examination of any Univ. in England or Wales) ; and (iii) satisfy the College authorities as to his character, probable suitability for the teaching profession, and health and physical capacity for teaching. A person who desires to enter as a recognized (*i.e.* grant-aided) student must also (iv.) be a British subject ordinarily resident in England or Wales, unless an exception to this rule is approved ; and (v.) sign a declaration of intention to complete the course of training and thereafter to adopt and follow the profession of teacher in an Approved school.

The principal types of courses at present recognized are : (i.) 4-year, *i.e.* 3 yrs. of study for a Univ. degree, followed by a year of professional training ; (ii.) 2-year, including a period of professional training concurrently with a period of academic study ; this course may, under special conditions for individual students, be extended for a third year or renewed for a year after three years' teaching in approved schools ; (iii.) 1-year, for graduates or Certificated Teachers who have not previously been trained at Training Colleges.

As regards (i.), a student may be admitted to the 2nd, 3rd, or 4th year if he has completed 1 yr., 2 yrs., or the whole of the course for a degree before entering the Training Department. He will not as a rule be certificated as a Teacher unless he has passed a Final examination for a degree.

A course of training extending over not less than 1 yr. at a Secondary School and providing for a systematic study of the principles and practice of teaching may be approved for a person who has obtained a Univ. degree, and a grant may be paid by the Board to the Governing Body of the School.

For studentships for teachers with at least 5 years' teaching experience, *see* Appendix II. 10.

The *College of Preceptors*, Bloomsbury Square, London, W.C.1, grants the following Diplomas to teachers : (1) A.C.P., (2) L.C.P., (3) F.C.P. The A.C.P. and L.C.P. examns. include a written examn. and a practical test of ability to teach. Candidates for the A.C.P. must show that they have reached an approved standard in general education. The L.C.P. examn. is open to University graduates and holders of the A.C.P. Diploma. Candidates must submit evidence of a year's professional experience for A.C.P. and 3 years' experience for L.C.P. The F.C.P. Diploma is granted to candidates who, having already obtained either the L.C.P. Diploma or a degree of an approved Univ. and a teaching diploma of an approved Univ., and having had 5 years' experience, submit a satisfactory thesis on some original research or experimental work in Education.

The *College of Handicraft* (Hon. Registrar, Ivor John, F.Coll.H., M.R.S.T., 124 Belgrave Road, London, S.W.1), a constituent part of the Institute of Handicraft Teachers, incorporated in 1924, grants certificates of competency as Teachers of Handicraft to applicants who satisfy the Bd. of Examiners of the Coll. The standard of examn. for M.Coll.H. is stated to be that of a University Diploma in Education, and for Graduate standard M.Coll.H. (Honours), the examns. are held in Feb. of each year. A necessary qualification is recognition by the Board of Educa-

tion as qualified teacher. A Summer School and a Correspondence Course of Study form part of the College activities, and prizes are awarded for research into the problems of Practical Education. Initials: M.Coll.H., etc. Academic dress may be worn by Members and Fellows.

### INTERCHANGE OF TEACHERS

Arrangements exist for the interchange of teachers in Secondary Schools between this country and the Dominions, France, Germany, and the United States, and also as regards teachers in Elementary Schools with the Dominions. The usual conditions of interchange, which is normally for one year, are that the teachers concerned are granted special leave of absence on full pay; they thus remain during the period of exchange in the service of their home authorities, and the period of interchange counts for salary-increment and pension. The Teachers Superannuation Act of 1937 further makes it possible for a teacher to leave service in a grant-aided school in England, and to serve for a period of 5 yrs., or in certain cases more, in a school overseas without forfeiture of pension rights, provided 10 per cent. of the salary last received in England is paid by the teacher for the period of overseas service.

The *League of the Empire*, Ord Marshall House, 124 Belgrave Rd., London, S.W.1, promotes the interchange of Elementary and Secondary School teachers between the Mother Country and the Dominions on the lines laid down above. Exchanges are also made between Lecturers in Training and Technical Colleges. 199 local authorities in Gt. Britain and Northern Ireland have co-operated, and over 3340 teachers have been exchanged. Canadian, Australian, S. African, Newfoundland, and New Zealand Education Depts. reciprocate. An article on the *Interchange of Teachers Scheme* was printed by the Board of Education in their Report for the year 1925-26. Teachers from any part of the Empire may find housing accommodation at Ord Marshall House. Chairman, Emeritus Prof. E. A. Gardner, M.A., Litt.D.; Hon. Treasurer, Lord Askwith, K.C.B.

The *Overseas Education League*, under the auspices of the Governments of the Dominion of Canada, Australia, New Zealand, South Africa and Newfoundland, as well as the Education Depts. of the Provinces of Canada, undertakes the organization of official visits of teachers and students to Gt. Britain and other parts of the Empire as well as Europe. Arranges the interchanges of teachers. Organizes Summer Schools in English, French, German, Spanish, Drama, Physical Education, and Folk Dancing. British teachers and students travel through Canada under its auspices. Vice-President and Hon. Organizer, Major Fred. J. Ney, M.C., LL.D., 43 St. George St., Toronto (now headquarters for Canada); other offices at 411 Power Building, Winnipeg, 70 Sun Life Building, Montreal.

The *Fellowship of the Maple Leaf* for the supply of British teachers for the Dominions is interested primarily in Elementary Schools, but also places teachers in Private Schools, High Schools, and Universities. Office—63 Tufton St., Westminster, S.W.1.

*British Interchange Committee.* The organization for the exchange of teachers in secondary and other schools in this country with similar teachers in foreign countries was studied some years ago by the British National Committee of Intellectual Co-operation under the League of Nations. As the result of two Conferences of teachers' organizations, local education authorities, and other bodies interested in the question, a representative national co-ordinating Committee was established with an Executive Committee to co-ordinate and assist the various organizations engaged in promoting the exchange of teachers with foreign countries. The Chairman of the Committee, which is recognized by the British National Committee of Intellectual Co-operation as one of its Sub-Committees, is Mr. R. G. Mayor, C.B., late Principal Asst. Secretary of the Board of Education for England and Wales. Secretary, Mr. A. Farquharson, M.B.E., M.A., 35 Gordon Square, London, W.C.1.

### TEACHERS REGISTRATION COUNCIL

Established by Act of Parliament 1907, and constituted by Orders in Council 1912, 1926 and 1937. *Address*—47 Bedford Sq., London, W.C.1.

The Conditions of Registration are : (i.) a degree or other qualification approved by the Council ; (ii.) successful completion of a course of training in teaching for 1 academic year or its equivalent in an institution recognized by the Council for this purpose ; *or* evidence of training service for at least 1 academic year in an approved school, the service being accompanied by a course of study in the methods and principles of teaching ; (iii.) teaching experience in an educational instn. recognized by the Council for this purpose and covering a period of not less than 1 academic year of whole-time or 3 acad. years of pt.-time service.

Condition (ii.) is waived in the case of a teacher who has had not less than 1 academic yr. of experience as Recognized Teacher in Univs. and instns. of Univ. rank approved by the Council for this purpose.

*Fee for Registration :* The standard fee for Registration and Life Membership of the Royal Society of Teachers is £3, but there is a substantial reduction in the case of those who seek early registration. The fee may be paid by instalments.

### ROYAL SOCIETY OF TEACHERS

*Executive :* The Teachers Registration Council. *President :* Sir Ross Barker, K.C.I.E., C.B. Membership is restricted to those who have satisfied the conditions of Registration, and have been admitted to the Official Register of Teachers maintained by the Council. Initials : M.R.S.T.

## 22.

## GOVERNMENT SERVICES—HOME AND OVERSEAS

These include :—

Home Civil Service (including Northern Ireland).

Indian Civil Service.

Ceylon Civil Service.

Foreign Office and Diplomatic Service.

Consular Service and Intelligence Officer Grade in the Department of Overseas Trade.

Information regarding examinations for posts in the Administrative and other superior branches of Government Service may be obtained from the Secretary, Civil Service Commission, Burlington Gardens, London, W.1.

Information regarding Administrative and other Colonial appointments (other than in Ceylon) may be obtained from the Director of Recruitment (Colonial Service), Colonial Office, 2 Richmond Terrace, Whitehall, London, S.W.1.

As regards numerous other Government appointments (Agriculture, Education, Forestry, Police, Sudan, etc.), University graduates are advised to make inquiries of their Appointments Board.

## V

## LIBRARY FACILITIES AND LIBRARIANSHIP

[Details of University and College libraries are included in the General Information sections under each institution.]

THE NATIONAL CENTRAL LIBRARY, Malet Place, London, W.C.1. (Librarian, Luxmoore Newcombe, M.A., Litt D) Its function is to supply those books which the local library is unable to provide. It does not issue books direct to individuals, but only to the library to which they have access. Every endeavour is made to provide, through its system of Outlier Libraries, any type of educational or vocational book, pamphlet, or periodical (costing not less than 8s., and *exclusive of text-books for examns.*), on any subject, if a copy is not in the local library. Advanced scholars and research students may thus obtain books and periodicals not accessible to them elsewhere. No charge is made for books lent, but postage both ways must be paid by the borrowing library, which accepts full responsibility for the safety and return of the books. The address of the local library, if not known, will be supplied on application to The Librarian of the National Central Library.

A LIBRARY CO-OPERATION INQUIRY OFFICE has been established by the Association of University Teachers with the help of a grant from the Carnegie United Kingdom Trustees and is now supported by subscriptions from the Universities. It endeavours to discover for research workers in what library, if any, any publication or MS. is available, and whether it can be lent. All inquiries must be made through the librarian of a university or college accompanied by a statement as to the libraries already applied to unsuccessfully. Address: The National Central Library, Malet Place, London, W.C.1.

THE ASSOCIATION OF SPECIAL LIBRARIES AND INFORMATION BUREAUX (ASLIB), 31 Museum St., London, W.C.1, was established in 1925. A record of the location and particulars of existing sources of specialized information is maintained and members are helped to get into touch with them. In 1937 the Fourteenth Annual Conference was held at Gonville and Caius College, Cambridge. The Conference Proceedings are published annually, price 5s. In 1928 the Association published in conjunction with the Oxford Univ. Press *The Aslib Directory*, a guide to sources of specialized information in Gt. Britain and Ireland. Price 10s. 6d. Other publications—Aslib Book-list: Quarterly Recommendations of recently published Scientific and Technical Books. Free to members, 10s 6d. p.a. to non-members. Quarterly Bulletin issued free to members. Genl. Secretary, Miss E. M. R. Ditmas, M.A.

Full details of all university and college libraries may be found in *The University and College Libraries of Great Britain and Ireland: a Guide to the Material available for the Research Student*, by L. Newcombe,

Bumpus, 1927. Special reference is made to those collections which are likely to be of value to the research student.

Another useful reference book is *The Students' Guide to the Libraries of London*, by R. A. Rye, Goldsmiths' Librarian of the University of London. 3rd edn. 1927. University of London Press, Ltd.

For international exchanges:

*Coordination des bibliothèques. Guide des services nationaux de renseignements du prêt et des échanges internationaux.* Deuxième édition. 1933. League of Nations Institute of Intellectual Co-operation, 2 rue de Montpensier, Paris 1<sup>er</sup>.

## SCHOOL OF LIBRARIANSHIP

University College, Gower St., London, W.C.1.

Candidates for admission to the post-graduate Diploma Course must hold a first- or second-class honours degree of the Univ. of London or other approved Univ. Non-graduates may be admitted to the School if they have the Matricn. certif. of the Univ. of London, or any certif. accepted in lieu thereof, provided that such certif. includes Latin. Other candidates may be admitted on producing evidence satisfactory to the Director that their previous education is such as to enable them to follow the courses with profit. It is desirable that one-year students should have a reading knowledge of French and some knowledge of German before undertaking the course.

Students wishing to proceed to the Diploma are required to register as Internal Students.

The course of training in Librarianship for full-time students will normally occupy not less than two sessions. Graduates are permitted to complete it in one session; Evening students, in not less than three, nor more than five years.

Composition Fees: Full-time students taking 2 or more sessions, 20 gs. per session; graduate taking 1 session, 30 gs.; Pt.-time students, 12-18 gs.

Intending students should apply to the Director of the School. For staff, *see* p. 139.

## THE LIBRARY ASSOCIATION

Founded 1877. Incorporated by Royal Charter, 1898. *Address*—Chaucer House, Malet Place, London, W.C.1.

Admission to the Register of Librarians, which is maintained by the Assn., can be secured either by the Diploma which entitles its holder to Fellowship of the Assn. (F.L.A.), or by passing the Intern. Examn. and thus becoming an Associate (A.L.A.). No candidate who



is not a member or transitional member of the Assn. will be admitted to any of the examns.

*Elementary Examn.* (fee, 10s. 6d.). Candidates must be not less than 17 and have passed one of the following—a School or Higher Certif. Examn. of one of the recognized examining bodies, a Matricn. or Entrance Examn. of a Univ. in the U.K. or other approved Univ., and certain other examns. Subjects—Elem. English Literary Hist., Elem. Classification, Cataloguing and Accession Methods; Elem. Library Administration. *Interm.* (fee, 1 g.). Candidates must have passed the Elem. Examn. and hold an approved certif. in one of certain langs. Subjects—Library Classification, Library Cataloguing. *Final* (fee, 1½ gs.). Candidate must have passed the Interm., hold a second approved lang. certif. and a certif. showing he has worked for not less than 24 hrs. a wk. for at least 3 yrs. as a member of the admin. staff of one or more libraries approved by the Council. Subjects—Pt. I.: English Literary Hist. or Lit. Hist. of Sci. or of Econ. and Comm. (A grad. in English, Sci. or Econ. of an approved Univ. may apply for exemption from Pt. I.) Pt. II.: Bibliog. and book selection. Pt. III.: Advanced Library Admin.

The Examns. are held in May (appln. on or before Mar. 31) and Dec. (appln. on or before Oct. 31). Further particulars from the Secretary.

*Publications:* *The Library Association Record* (monthly); *The Library Assn. Yearbook*; *The Subject Index to Periodicals* (annual); *The Year's Work in Librarianship* (annual).

## VI

## STUDENT ORGANIZATIONS, BUREAUX OF INFORMATION, AND OTHER ASSOCIATIONS

A NATIONAL UNION OF STUDENTS of the Univs. and Univ. Colleges of England and Wales was formed in Feb. 1922 "to represent the students of this country nationally and internationally," and to promote their educational and social interests in entire independence of all political or religious propaganda. It is a federation of Unions, Guilds, and Student Representative Councils. It is affiliated to the *Confédération Internationale des Étudiants* (v. App. X.), through which it has taken an active part in promoting foreign travel of English students and stimulating intercourse with students abroad. A particularly important Dept. is that for Exchange and Tuition Visits which arranges each year many hundreds of exchanges between British and foreign students. The next Annual Congress will be held at Nottingham, April 7-13, 1938.

Similar National Unions exist in Canada, South Africa, Australia, and New Zealand, and there have been two conferences of Student Unions of the Empire, the first held in London and Cambridge in July 1924, and the second in Montreal in Sept. 1929. The purpose of these conferences has been to discuss ways and means of practical co-operation among the students of the Empire and questions of general Imperial interest. As a result of them it is possible to arrange periodic visits of Debating Teams from Gt. Britain to the Dominions and *vice versa*, and among the various Dominions themselves. Large groups of South African students have visited England on many occasions, and such visits have now become annual events. The formation of the Dominion Students' Athletic Union with headquarters in London was a direct outcome of the first Imperial Students' Conference, and the existence of this Union makes it possible to arrange the participation of Dominion Teams in the International University Games and to promote athletic fixtures between teams of Dominion Students resident in England and teams representing the British Universities. *Publication*—"The New University," twice a term, 2d. *Address*—3 Endsleigh Street, London, W.C.1.

THE SCOTTISH NATIONAL UNION OF STUDENTS (S.N.U.S.), formerly known as "The Students' Representative Councils of Scotland," consists of the Students' Representative Councils of the four Scottish Univs., and therefore represents all the students of Scotland—total number approximately 11,000. Principal Secretary and Treasurer, A. S. R. Tweedie, M.A., S.R.C. Office, The University, Edinburgh. Formerly one of the chief features of the S.R.C.S. (as it then was known) was the Annual Conference, at which each Univ. was represented by eight delegates. It was, however, decided at the beginning of 1935 that, as the Annual Conference did not operate satisfactorily, it should be abolished and the business of the S.N.U.S. should in future be conducted by means of: (1) An Annual Convention of four delegates from each S.R.C.; (2) the

National Executive Committee, consisting of the President and Secretary of each S.R.C., and attended by the Principal Secretary and the Travel Secretary; (3) the Inter-Universities International Academic Committee; (4) other Committees appointed for special purposes; and (5) the Executive Officers. At the same time the alteration in the name of the National Union was effected. The second Annual Convention was held in Aberdeen at the end of Jan. 1937. The S.N.U.S. is federated to the Confédération Internationale des Étudiants (C.I.E.), having applied for readmission to that body at its 18th Annual Congress held in Sofia in Aug. 1936. A separate Department of the S.N.U.S. is devoted to the organization of student travel, reception of foreign students, and exchange and tuition (*au pair*) visits. Communications on these subjects should be addressed to the S.N.U.S. Travel Secretary, S.R.C. Office, Univ. of Edinburgh. The S.N.U.S. also maintains, in conjunction with the National Union of Students of England and Wales (N.U.S.), an "Honorary Academic Consulate." In many Univ. towns throughout the world a Consul has been appointed who will give advice and assistance to British students and graduates visiting his city, and who will introduce them to Univ. circles. The Keeper of the Register of Consuls, from whom cards of introduction to Consuls may be obtained, is Mr. A. S. R. Tweedie (address as above).

THE NATIONAL FEDERATION OF CANADIAN UNIVERSITY STUDENTS, inaugurated Dec. 1926. First Annual Conference held at Univ. of Toronto, Dec. 1927. Last meeting, Univ. of Manitoba, Winnipeg, Dec. 28-31, 1937. Meetings now biennial. Next will be held in Dec. 1939. The Federation has complete charge of all student debating tours including inter-university debates in Canada, receiving of teams from all other countries, and sending teams out of Canada. Over 500 debates arranged since its inception. Officers, 1937-39: President, J. H. McDonald, McGill Univ., Montreal. Secretary-Treasurer, P. G. Davies, B.A., LL.B., Drawer 6, Clyde, Alberta.

THE NATIONAL UNION OF AUSTRALIAN UNIVERSITY STUDENTS was formed at a Student Conference in Adelaide early in 1937. It was there decided that the Australian Union should follow broadly on the lines of the N.U.S. of England and Wales and should seek both to obtain and to give the fullest co-operation with similar bodies throughout the world. It is particularly interested in the exchange of students between the various States of Australia and in developing international exchanges. President, K. Ellis, LL.B. (Sydney). Hon. Secretary, A. G. Crawford, B.A., LL.B., Gosper Lane, Univ. of Sydney, Sydney, N.S.W.

THE NEW ZEALAND NATIONAL UNION OF STUDENTS was founded in 1930. Its constituent organizations are the Student Unions of the 4 Univ. Colls. constituting the Univ. of N.Z. Its Statutes are modelled on those of the English N.U.S. Its activities comprise sports, debating, supply of text-books, travel and foreign relations. Its objects are "to represent the views of past and present students of N.Z. nationally and internationally; to maintain an effective co-operation with students in N.Z. and in other countries; and to promote and maintain the educa-

tional and social welfare of students, entirely independent of political and religious propaganda." It appoints a Univ. graduate as its representative in Europe and is affiliated to the International Confederation of Students. President, A. P. Blair. Secretary, F. D. Christensen, Norwich Chambers, Featherston St., Wellington, C.I.

THE NATIONAL UNION OF SOUTH AFRICAN STUDENTS was formed in 1924. Its members are drawn from most of the Universities and Colleges in S. Africa and its main practical achievements are the Annual Students' Overseas and Inland Tours and the study of National and International problems, through lectures, week-end schools, study circles, national conferences, etc. Since its inception nearly 3000 students have visited numerous countries in Europe, the Near East, Far East, America and Canada, while three parties of overseas students have toured S. Africa under its auspices. Secy., Wanda E. Dobrowsky. All correspondence to be addressed to: The N.U.S.A.A. Office, 148 St. George's Street, Cape Town, S. Africa.

Among foreign organizations useful to British students the following may be mentioned:

*Austria*—(1) Auslandstelle der Oesterreichischen Hochschulen, Dr. Karl, Luegerring 10, Vienna I. (2) Wiener Internat. Hochschul-Kurse, Vienna IX., Boltzmanngasse 16; (3) Kursorganisation der Wiener medizinischen Fakultät, Vienna IX., Porzellang. 22, from which programmes of medical courses for foreigners and others can be obtained; (4) Oesterreichisch-Ausländischer Studentenklub, Schottengasse 7, Vienna I.; (5) Minerva Büro, Vienna VIII., Schöllergasse 22 (information about board and lodging); (6) Austro-American Institute of Education, 1 Operngasse 4, Vienna. (Branch of the Institute of International Education, New York.)

*Belgium*—Fondation Universitaire, 11 rue d'Egmont, Brussels  
Director: M. Jean Willems.

*Czechoslovakia*—(1) Kancelář pro studium v Cizině (Information bureau on studies abroad), Akademický dům, Prague III.; (2) British Society, Na Příkopě 12, Sylva Tarucca Pal., Prague; (3) American Institute, Na Porici 12, Prague. Affiliated to the Institute of International Education, New York.

*Denmark*—Anglo-Danish Students' Bureau, 98 Great Russell St., London, W.C.1. Director: Mr. J. H. Helweg, Cand. Mag.

Dansk Studieoplysningskontor (Danish Students' Information Office), 6 Studiestraede, Copenhagen, K.

*Egypt*—Egyptian Education Office in London, 4 Central Buildings, London, S.W.1.

*France*—Office National des Universités et Écoles Françaises, 96 Boulevard Raspail, Paris VI. Director: Mons. Ch. Petit-Detailis, D. ès L., Membre de l'Institut de France; Deputy Director: Mons. A. Digeon, Recteur d'Académie.

London Branch: c/o Institut Français, 15 Queensberry Place, London, S.W.7. Director: Mons. L. E. Genissieux, L. ès L., Agrégé de l'Univ.

The Office published in 1925 a comprehensive Handbook giving information about the French Universities and the entire system of organization of education in France. (H. F. W. Deane & Sons, The Year-Book Press Ltd., London. 5s.). The French Ministry of National Education announced on Sept. 17, 1926, the admission to equivalence with the "baccalauréat de l'enseignement secondaire français" of every certificate of matriculation issued by one of the Universities of the United Kingdom and every diploma accompanied by an attestation of the Universities Bureau of the British Empire certifying that the diploma entitles its holder to admission as a regular student to degree courses in one of those Universities. Certificates must be forwarded in original to the Secretary of the Bureau.

The Institut Français du Royaume-Uni is worked in conjunction with the Office National. Director, Prof. D. Saurat, D. ès L., Chev. Lég. d'H.; Director of Studies, Mons. J. Manchon, Agrégé de l'Univ., Chev. Lég. d'H. Founded in 1910 and attached to the Universities of Lille and Paris, the Institut consists of: a Faculty of Arts, where British students are prepared for the Certificate in French of the Univ. of London and the L. ès L. degree of the Univ. of Lille; public lectures; a mixed lycée; and a library. Provincial branches exist in Leeds, Nottingham, and Brighton.

British Institute in Paris (a foundation of the University of Paris), 6 rue de la Sorbonne, Paris V. Director: Harley Granville-Barker, D.Lit., LL.D.

London Office: 1 Old Burlington St., W.1. Secretary: B. S. Townroe, M.A.

Franco-British College of the Cité Universitaire, 9 Boulevard Jourdan, Paris XIV. Director, Mons. A. Desclos, M.C., Chev. Lég. d'H. A residential college for 80 men and 140 women, French and British students in equal numbers.

American University Union (Paris branch of Institute of International Education, New York), 173 Boulevard St. Germain, Paris.

*Germany*—Deutsches Institut für Ausländer, Universität Berlin, C 2, Universitätsgebäude. Publishes, monthly, *Mitteilungen*.

Deutscher Akademischer Austauschdienst, Berlin, N.W. 40, Kronprinzen-Ufer 13. Director: Oberregierungsrat Burmeister. Its object is to further relations between German and other Univs. and to promote exchanges between different countries.

London Branch: Anglo-German Academic Bureau, 45 Russell Square, London, W.C.1. Acting Director, Dr. jur. Gerhard Krause.

There is an Akademische Auslandsstelle (Information Bureau for foreign students) attached to all German Universities.

*Holland*—(1) Netherlands Committee for International Academic Relations, Biltstraat 109, Utrecht; (2) Nederlandsch Bureau voor Buitenlandsche Studentenbetrekkingen (Dutch Office for Foreign Student Relations), Breestraat 41, Leiden.

*Hungary*—Inter-University Bureau, Báthory u. 12, Budapest V.

*Italy*—(1) Centro nazionale italiano di informazioni universitarie, Ministero della Giustizia, Via del Conservatorio, Roma. Secretary:

A. Cosco ; (2) Istituto Interuniversitario Italiano, Roma, Via delle Tre Pile, n.1 (information about holiday courses only).

The British Institute of Florence, Palazzo Antinori, Piazza Antinori 3, comprises a School in English for Italians, with 3 years' (elementary), 2 years' (higher), and 2 years' (finishing) courses, a reading-room and library (20,000 vols.). It also organizes public lectures on contemporary Italy and Italian art and architecture as well as concerts and musical lectures. Its Higher Diploma is of the standard of the Doctorate of an Italian University. Director : Dr. H. Goad.

*Norway*—Studie-Oplysningskontoret, Universitet, Oslo.

*Spain*—Centro de Estudios Historicos, Duque de Medinaceli 4, Madrid.

*Switzerland*—Schweizerische Zentralstelle für Hochschulwesen (Office Central Universitaire Suisse), Laupenstr. 9, Berne. Director : Dr. P. Flückiger.

The University of Geneva accepts as equivalence for admission a certificate of matriculation issued by a University of the United Kingdom or a certificate exempting from that examn. accompanied by an attestation of the Universities Bureau of the British Empire, certifying that the certificate entitles its holder to admission as a regular student to degree courses in one of those Universities.

Certificates must be forwarded in original to the Secretary of the Bureau.

*U.S.A.*—Institute of International Education, 2 West 45th Street, New York City. Director : Dr. Stephen Duggan, O. Lég. d'H.

London Branch : American University Union, 1 Gordon Square, London, W.C.1. Director : Mr. Willard Connely, M.A.

ASSOCIATION OF UNIVERSITY TEACHERS. *Hon. Gen. Secretary*—Prof. R. Douglas Laurie, M.A., University College of Wales, Aberystwyth. The objects of the Association are : The advancement of University education and research, the promotion of common action among University teachers and the safeguarding of the interests of its members. Membership is open to all full-time teachers and research workers on the staffs of institutions of Univ. rank in England, Wales, and Northern Ireland. In addition to the ordinary members, who are at the same time members of one or other of the 27 Local Associations, there are attached members in instns. where no Local Assn. exists, and a few Corresponding Members in overseas Univs. ; total membership about 1800. *Annual subscription* : Ordinary and attached members, 15s. ; Corresponding members, 5s. *Publications* : *Various Special Reports ; The Universities' Review* (May and Nov.), 2s.

For particulars of the Library Co-operation Inquiry Office, *see* Appendix V.

ASSOCIATION OF SCIENTIFIC WORKERS, 28 Hogarth Rd., London, S.W.5. Founded 1918. Aims at bringing together into one professional organization all qualified scientific workers, viz. : those engaged in (a) University and other Higher Educational Institutions and State-

aided Research Institutions, (b) Industry and Consultative Practice, (c) State and Municipal Scientific Departments. Yearly subscription, 1 g. min. (with exceptions). Official journal, published 4 times a year, *The Scientific Worker*. President, Sir Frederick Gowland Hopkins, O.M., F.R.S. Hon. Secy., W. A. Wooster, B.A., Ph.D.; Asst. Secy., Mrs. Reinet Fremlin, M.Sc.

THE JOINT UNIVERSITY COUNCIL FOR SOCIAL STUDIES AND PUBLIC ADMINISTRATION. The Joint University Council for Social Studies was established in 1918, having as object the co-ordination and development of the work of Social Studies depts. in connexion with the Univs. of Gt. Britain. In 1936 it was decided to relate the Council's work more closely to that of degree or diploma courses in public administration. Its membership was enlarged so as to include representatives of the teachers concerned with these courses and its name was altered accordingly. The Council now includes representatives of 16 Univs. and Univ. Colls. Annual affiliation fee, £4:4s. Inquiries to be addressed to the Hon. Secretaries, 50 Romney St., Westminster, S.W.1.

NATIONAL INSTITUTE OF ECONOMIC AND SOCIAL RESEARCH, 32 Gordon Sq., London, W.C.1. The Institute has been established to conduct research, either by its own staff or by other persons temporarily associated with it, into the facts and problems of contemporary human society; to provide assistance and facilities for research to members of Univ. staffs and others; to apply for funds in aid of such research; to collaborate with any similar organizations in other countries; to publish or to assist in publication of results of researches. Director, Prof. N. F. Hall, M.A., A.M.(Econ.). Inquiries to be addressed to the Secretary.

A JOINT STANDING COMMITTEE FOR EMPIRE EDUCATIONAL WORK has been formed under the chairmanship of T. Drummond Shiels, M.C., M.B., Ch.B., as a result of the Conference of Empire Societies called by the Secretary of State for the Dominions in Nov. 1934. Its purpose is to co-ordinate and to develop the educational work of all the non-party Empire Societies in London which include such activities in their programme. Inquiries should be addressed to the Hon. Secretary, Miss Gertrude Drayton, C.B.E., 81 Cromwell Road, London, S.W.7.

THE ANGLO-CANADIAN EDUCATION COMMITTEE has been formed to facilitate the movement of English boys to Canadian Universities. British Committee, Seymour House, Waterloo Place, London, S.W. Joint Chairmen, Rt. Hon. L. S. Amery, M.P., Sir Campbell Stuart, K.B.E. Hon. Secy., K. Lindsay, M.P. Secy., H. E. Rubie. The Committee has recently published a book entitled "The Universities of Canada."

On the Canadian side there is a Committee consisting of well-known educationalists.

[Possibly closing down on March 31, 1938.]

## VII

STUDENTS FROM OTHER COUNTRIES IN THE  
UNIVERSITIES AND UNIVERSITY COLLEGES OF  
GREAT BRITAIN AND IRELAND

1937-38

Compiled from returns received from all Univs. and Univ. Colls. with the exception of Trinity College, Oxford.

From EUROPE 1299, ASIA 2241, AFRICA 1069, AMERICA 1102, AUSTRALASIA 369. Grand Total 6080. The following analysis of the figures received shows the chief distribution of the students from certain countries.

EUROPE. *Austria*.—49: London Colls. 27. *Belgium*.—20: London Colls. 15. *Cyprus*.—23. *Denmark*.—28. *France*.—50: London Colls. 18. *Germany*.—444: Cambridge 36, London Colls. 277 (Univ. Coll. 62, Imperial 17, Sch. of Econ. 66, Med. Schools 27), Manchester 19, Oxford 20, Edinburgh 20. *Greece*.—31: London Colls. 20. *Holland*.—58: London Colls. 36. *Hungary*.—38: London Colls. 18. *Italy*.—23: London Colls. 17. *Latvia*.—25: London Colls. 20. *Malta*.—23. *Norway*.—54: London Colls. 21. *Poland*.—118: Leeds, 16, London Colls. 55. *Roumania*.—29: London Colls. 16. *Russia*.—22: London Colls. 13. *Spain*.—20: London Colls. 15. *Sweden*.—28: London Colls. 18. *Switzerland*.—69: London Colls. 43. *Turkey*.—39: London Colls. 29. *Yugoslavia*.—21.

ASIA. *Burma*.—38: London Colls. 20. *Ceylon*.—103: London Colls. 69. *China*.—255: Cambridge 30, Liverpool 14, London Colls. 132 (Univ. Coll. 24, Imperial 16, Sch. of Econ. 61), Oxford 14, Edinburgh 22. *India*.—1408: Cambridge 137, Leeds 45, London Colls. 820 (Univ. Coll. 163, King's 88, Imperial 97, Sch. of Econ. 86, Sch. of Oriental Studies 49, Med. Schools 194, Polytechnics 34), Manchester 65, Oxford 74, Sheffield 24, Wales 22, Edinburgh 95. *Iran*.—78: Birmingham 29, London Colls. 35. *Iraq*.—71: London Colls. 42. *Japan*.—24: London Colls. 15. *Palestine*.—149: London Colls. 111 (Univ. Coll. 31, Queen Mary 18, Sch. of Econ. 23). *Siam*.—52: London Colls. 31. *Straits Settlements and F.M.S.*—41: London Colls. 13.

AFRICA. *Egypt*.—375: Birmingham 21, Cambridge 18, Leeds 24, Liverpool 31, London Colls. 124 (Univ. Coll. 19, King's 16, Imperial 14, Med. Schools 36), Manchester 17, Sheffield 27, Exeter 19, Edinburgh 29. *Mauritius*.—30: London Colls. 25. *Nigeria and West Africa*.—73: London Colls. 24. *South Africa*.—546: Cambridge 95, Liverpool 15, London Colls. 231 (Imperial 17, Med. Schools 138, Schools of Music 26), Oxford 57, Edinburgh 60.



AMERICA. *Canada and Newfoundland*.—302: Cambridge 34, London Colls. 156 (Univ. Coll. 26, Sch. of Econ. 23, Med. Schools 43), Oxford 50, Edinburgh 32. *South America*.—61: London Colls. 28. *United States*—558: Cambridge 90, London Colls. 196 (Univ. Coll. 34, King's 16, Sch. of Econ. 77, Med. Schools 39), Oxford 143, Edinburgh 54. *West Indies*.—160: Cambridge 14, London Colls. 70 (Med. Schools 33), Edinburgh 24.

AUSTRALASIA. *Australia*.—252: Cambridge 50, London Colls. 116 (Univ. Coll. 22, Med. Schools 43, Schools of Music 22), Oxford 52, Edinburgh 23. *New Zealand*.—115: Cambridge 20, London Colls. 64 (Med. Schools 17), Oxford 17.

ALL COUNTRIES. Birmingham 122, Bristol 57, Cambridge 667, Durham 71, Leeds 140, Liverpool 142, London Colls. 3104 (Univ. Coll. 579, King's 251, Imperial 276, Sch. of Economics 562, Sch. of Oriental Studies 77, Bedford (Women) 41, Med. Schools 680, Polytechnics 159, Schools of Music 156), Manchester 175, Oxford 536, Reading 44, Sheffield 80, Wales 57, Aberdeen 34, Edinburgh 428, Glasgow 88, St. Andrews 35, Queen's, Belfast 1, Dublin 108, Nat. Univ. of Ireland 34. *Independent Colls.*—Exeter 78, Nottingham 56, Southampton 23.

## VIII

## UNIVERSITIES OF THE UNITED STATES OF AMERICA

Students in this country intending to study in the United States are advised to apply to the American University Union, British Division, 1 Gordon Square, London, W.C.1. For Information Bureaux abroad see Appendix VI. The Institute of International Education, 2 West 45th Street, New York City, publishes a *Guidebook for Foreign Students in the U.S.A.* containing information concerning graduate study and other facts of interest to a foreign student, 5th edn., 1937. A useful publication is *American Universities and Colleges*, edited by Clarence S. Marsh for the American Council on Education. (Third edition revised.) Published by Williams and Wilkins Company, Baltimore, Maryland, 1936. Cost \$4.00. Pt. I. is devoted to a general explanation of the organization and operation of higher education, and Pt. II. gives separate statements of the individual colleges and universities arranged alphabetically.

**EXPENSES.** Annual tuition fees range from a maximum of about \$500 in the large Eastern universities to a minimum of about \$75 in the State universities and small colleges of the Middle West. Living costs vary according to the size of the college or university, and the size of the town in which it is located. In general, living expenses in the South are a little less than in the Middle West, and in the Middle West a little less than in the West and East. The cost of an academic year of nine months may be reckoned at about \$1500 in the most expensive places, and \$650 in the least expensive. Transportation costs about two cents a mile.

**INTERNATIONAL HOUSE,** Riverside Drive, New York City, opened Sept. 1924, is a residential club for over 500 foreign and American students. Similar houses have been opened at the Univ. of California, and at the Univ. of Chicago. The requisite funds for these three International Houses were provided by John D. Rockefeller, Jr.

**SCHOLARSHIPS.** For information as to American University and College Scholarships for British students see Appendix II. 34.

**AMERICAN DEGREES (non-professional).** The following notes are based on a Report presented by a Committee of the American Council on Education to the French Ministry of Public Instruction: The American Colleges, both those which are independent institutions and the colleges of liberal arts within Universities, award the A.B. (or B.S.) degree to students who complete a 4 years' course. Ordinarily the student at the time of admission to the college is about 18 years of age and has completed a 4 years' course in a secondary school. A considerable portion of his work at college belongs, however, to what

in European countries is called secondary education. A peculiarity of the American system of grading, both in secondary and in higher institutions, is the weight attached to the length of time spent under instruction, a degree being attainable by gradual accumulation of a specified number of "credits" (certificates of definite periods of time spent successfully under instruction), which thus largely replace the examinations used in other countries for testing the student's capacity at various intervals. The college graduate who aspires to the degree of M.A. (or M.S.) proceeds to the Graduate School of a University (the professional schools of first grade prefer and in some cases require graduate standing for admission), and there pursues his studies, either general or, if aiming at a subsequent doctorate, specialized, for one year. The Ph.D. requirements are ordinarily "3 years of resident study, beyond the baccalaureate, the presentation of a thesis embodying the results of original research, and the passing of a comprehensive examination testing the candidate's knowledge of his chosen field of learning."

The Report points out that higher education in the U.S.A. is largely autonomous, there being no control by the Federal Government and little control by the political authorities of any State. Such standardization as has been effected has come through the voluntary efforts of groups of institutions having similar ideals and purposes. Conspicuous among these is the Association of American Universities.

The following 30 American Univs. of complex organizations, usually with graduate schools and certain professional and technological schools, are members with voting privileges of the Association:

Brown, California Institute of Technology, California, Catholic Univ. of America, Chicago, Clark, Columbia (including Teachers' Coll. and the International Institute), Cornell, Harvard, Illinois, Indiana, State Univ. of Iowa, Johns Hopkins, Kansas, Massachusetts Institute of Technology, Michigan, Minnesota, Missouri, Nebraska, North Carolina, Northwestern, Ohio State Univ., Pennsylvania, Princeton, Stanford, Texas, Univ. of Virginia, Washington (Missouri), Wisconsin, Yale.

In addition there are many educl. organizations of the first rank which are accredited by the Assn.

In the 1460 Universities, Colleges, Junior Colleges, and Professional Schools which submitted returns for 1931-32 (Bulletin 1933, No. 2—Advance Pages—Government Printing Office, 1935), to the United States Office of Education, there were enrolled in that year 1,154,117 students, about equally divided between men and women. Of these institutions 544 were under public and 916 under private control. Of the total number of students more than 530,000 were listed as undergraduates in arts and sciences and more than 42,000 as graduates in arts and sciences. Professional Schools enrolled nearly 500,000 undergraduates and more than 35,000 graduates. Law students numbered 37,170; medical 24,040; dental 8519; theological 12,350; pharmacy 9782; engineering 77,041.

THE BRITISH LIBRARY OF INFORMATION, 270 Madison Avenue, New York, established Dec. 1919 for the convenience of Americans desiring information on British current affairs, is a branch of the News Depart-

ment of the Foreign Office, from which it is well supplied with official documents and other publications. It has become the recognized centre for information on British Empire affairs. Wherever possible, official documents are lent, on request, to American libraries under the usual inter-library loan conditions. Early copies of documents dealing with matters of general interest, such as foreign affairs, finance, education, social welfare, industrial relations, mineral and oil resources, etc., are received regularly direct from London. The Library also has an important file of documents on Indian affairs, and some of the leading Indian newspapers. It is free to the public, and information is given to all inquirers. The Library is the official agent in U.S.A. for publications of H.M. Stationery Office.

A BRITISH-AMERICAN ASSOCIATION OF PHI BETA KAPPA (founded 1776—a society of American University scholars of distinction) was formed in England in 1924 under the presidency of Lord Balfour. Address: American University Union, 1 Gordon Sq., London, W.C.1.

ADMISSION TO BRITISH UNIVERSITIES. Information as to the conditions of admission of American students to British Universities will be found in Appendix I.

## IX

## ANGLO-AMERICAN RELATIONS

## PROFESSORSHIPS

GEORGE WATSON LECTURESHIP. Founded by Sir W. G. Watson, Bt., who presented £20,000 for the purpose on the occasion of the return of the Prince of Wales from his American tour. Each year's course will usually comprise about 6 lectures by an eminent authority, American or British. The courses will be given in the various British Univs. in rotation. A general Inaugural Lecture was given in London by the late Viscount Bryce, O.M., in July 1921. This and some subsequent lectures have been published in England by the Cambridge Univ. Press. Lecturer, 1938: Prof. H. Hale Bellot. *Subject*: "Recent Advances in the Interpretation of American History." The Foundation is administered by the Sulgrave Manor Board, 37 Charles St., Berkeley Sq., London, W.1.

GEORGE EASTMAN VISITING PROFESSORSHIP, tenable at Oxford Univ. The holder shall be, at the time of his election, a citizen of the U.S.A., eminent in teaching or research, and he shall give instruction in the subject of study in respect of which he is appointed. Appointment—not less than 1 nor more than 5 yrs., but re-eligible. 1938–39—Prof. T. Frank, Ph.D. (Prof. of Latin, Johns Hopkins Univ.).

HAROLD VVYAN HARMSWORTH PROFESSORSHIP OF AMERICAN HISTORY, tenable at Oxford Univ. The Prof. shall be, at the time of his election, a citizen of the U.S.A. Appointment—5 yrs. from date of election, but re-eligible. Salary, £1200 p.a. Present appointment: R. McNutt McElroy, M.A., D.Litt., Fellow of Queen's, to hold office until July 31, 1938.

COMMONWEALTH FUND PROFESSORSHIP OF AMERICAN HISTORY, tenable at the Univ. of London, University College. The Commonwealth Fund of New York has appropriated a sum of \$214,500 to endow a Department of American History at University College, London, including a professorship and assistants. Present holder: Prof. H. Hale Bellot, M.A. Ox. A sum of £4866 was raised in London and New York, the income of which is available for the library of American History at the College, and the library on the same subject at the Institute of Historical Research, Malet Street, London, W.C.1.

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The American Universities are constantly inviting distinguished British scholars to lecture on British History and institutions, so that the need for the establishment of special foundations for the purpose has not been felt in the United States.

## X

## INTERNATIONAL FEDERATIONS

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS (formerly International Research Council). Gen. Secretary—Prof. F. J. M. Stretton, Caius College, Cambridge. This body was constituted in 1919, in pursuance of a resolution adopted in Nov. 1918 at a Conference in Paris at which the principal Allied Academies were represented. Under the auspices of the Council, *International Unions* have been formed for Astronomy, Geodesy and Geophysics, Chemistry, Physics, Scientific Radio, Biological Sciences, and Geography. Next meeting of the Council at Copenhagen in 1940.

UNION ACADÉMIQUE INTERNATIONALE (for co-operation in the advancement of studies by means of collective researches and publications in the fields of Archæology, History, Philology, and Moral, Political, and Social Science). The Union was constituted in 1919 on the initiative of the Académie des Inscriptions et Belles-Lettres. 20 nations of Europe, Asia, and America have each 2 representatives nominated by their Academies. The annual General Assembly is held at Brussels towards the end of May. President for 1938: M. Waldo Leland. Administrative Secretariat, Palais des Académies, Brussels.

MODERN HUMANITIES RESEARCH ASSOCIATION, founded at Cambridge in 1918, is now an international organization with members in 28 countries. Its main object is the encouragement of advanced studies in Modern Languages and Literatures by co-operation, through correspondence, personal intercourse, the interchange of information and counsel and the publication of original research and works of reference. Membership is open to graduates (and persons of the standing of graduate) of all Univs., British and foreign; to other persons, at the discretion of the Committee; and to approved institutions. Publications: *Modern Language Review* (quarterly, 25s. p.a.); *Annual Bibliography of English Language and Literature*, 8s. 6d.; *The Year's Work in Modern Language Studies*, 8s. 6d. Reduced prices to members. All pubd. by the Cambridge University Press. Hon. Secretary, Will G. Moore, M.A., D.Litt., St. John's College, Oxford; Sub-Secretary for America, Dr. L. R. Bradley, 100 Washington Square East, New York City.

INTERNATIONAL INSTITUTE OF INTELLECTUAL CO-OPERATION, 2 rue de Montpensier, Paris, 1<sup>re</sup>. Director: M. Henri Bonnet. Inaugurated Jan. 1926. The Institute forms part of the International Organization for Intellectual Co-operation, which is itself one of the four technical organs of the League of Nations. Established on the basis of an agreement concluded between the Council of the League of Nations of the one part and the French Government of the other. The Institute is the executive instrument of the Internat. Committee on Intellectual Co-

operation. Its duty is to assure in all countries the carrying out of the decisions and recommendations of the Committee and, under the direction of that Committee, and by every means in its power, to promote, through internat. co-operation, the organization of intellectual work throughout the world. The Institute is open on every working-day. Visitors received by appointment.

Information is given on the following matters :

1. The scientific study of international relations.
2. Certain general questions of intellectual co-operation, *e.g.*: exchanges of correspondence ("Open Letters") and the organization of "Conversations" between representative leaders of the intellectual world; the educational rôle of modern means of diffusion (Press, broadcasting, and the cinematograph); the internat. problem of documentation; publication of a collection of ethnographical and historical works on the origins of the American States.
3. Internat. relations: various internat. conventions are being considered. They relate, more particularly, to broadcasting in the cause of peace; the revision of school text-books; the protection of national artistic possessions; and the organization of art exhibitions.
4. Education: internat. collaboration between univs.; co-ordination of educational documentation and information centres; meetings of internat. student organizations; revision of school text-books; teaching of history; school questions, such as school broadcasting, internat. school correspondence, internat. travel and exchange of school-pupils, and liaison with the major internat. assocns.
5. Exact and natural sciences: collaboration between science museums; relations with the Council of Scientific Unions; co-ordination of scientific terminology.
6. Co-ordination of libraries and archives.
7. Literature: publication of an internat. bibliography of translated works (*Index Translationum*), of an Ibero-American Collection, of a collection of Japanese works.
8. Fine Arts: International Museums Office, International Office of Institutes of Archaeology and History of Art; folk-arts.
9. Intellectual rights: authors' rights; scientists' and inventors' rights; protection of press information.

*Methods of Work*: 1. Internat. inquiries. 2. Publications (see below). 3. Meetings of permanent or temporary committees of experts.

The Committees of Experts are as follows:

Permanent International Studies Conference; Committee of Directors of Higher Education; Committee of Directors of Primary and Secondary Education; Committee of Library Experts; Directors' Committee of the International Museums Office; Committee of Archives Experts; Committee of International Student Organizations; Permanent Committee of Arts and Letters; Directors' Committee of the Office of Institutes of Art; Committee of Experts on League of Nations Teaching; International Folk Art Committee; Committee of Law Institutions specializing in the study of Intellectual Rights; Publication Committee for the Ibero-American Collection; Liaison Committee for Major International Associations.

National Committees of Intellectual Co-operation in this and many other countries also work in co-operation with the Institute.

Principal publications of the Institute :

I. Periodicals—*Intellectual Co-operation* : 1929, 1930 *et seq.* ; *Mouvement* : 1927 *et seq.* ; *Informations mensuelles. Index Translationum*, No 1, 1932 *et seq.* ; *Science Museums*, No 1, 1933 *et seq.* ; *Bulletin d'Archéologie et d'Histoire de l'Art*, No 1, 1934 *et seq.* ; *Bulletin de la Correspondance scolaire internationale*, No 1, 1930 *et seq.* ; *Students Abroad*, No 1, 1931 *et seq.* ; *Holiday Courses in Europe*, 1928 *et seq.* (published also in French and German).

II. Volumes—"Cahiers" and an international intellectual co-operation series (classified under the following headings) : Literature, Art, Libraries and Archives, Bibliography, Economic and Political Sciences, Education, Intellectual Rights.

THE BRITISH INSTITUTE IN PARIS, 6 rue de la Sorbonne, Paris V<sup>e</sup>.  
Director—Harley Granville-Barker, D.Lit., LL.D. A Foundation of the University of Paris.

The work of the Institute is divided into two sections :

(1) French studies for English students. This section assists Univ. graduates from Gt. Britain or the Dominions who are working for higher degrees at the Sorbonne or elsewhere, and gives such classes and courses in the French language and literature as should help students to follow more profitably the courses in French Univs., or to prepare for business careers in France or elsewhere. It organizes for the British Univs. courses of a term's length or longer (from Nov. to June) for groups of students who must come to France for some part of their preparation for a degree in French. It also organizes for the Board of Education, the Univs. and Public Schools, holiday courses of from 1 to 4 weeks in length, at Easter and in July and August.

(2) English studies for French students. This section provides classes and lectures on English language and literature, modern history and social conditions to help in the preparation for degrees in English or to prepare for careers in England or the Dominions. The session, beginning about Nov. 3, is divided into 3 terms of 10 weeks each.

The premises include a library of 9000 vols. and a club-room in which French and English students meet for tea and conversation. The office gives information regarding the various courses in the Univ. of Paris and the addresses of French families where students are received. The Director can usually obtain for research students introductions to professors and men of letters capable of assisting them.

London Office : 1 Old Burlington St., W.1. ; Secretary, B. S. Townroe, M.A.

The CONFÉDÉRATION INTERNATIONALE DES ÉTUDIANTS was formed at Strasbourg in 1919 by official representatives of the National Unions of Students of Belgium, Czechoslovakia, France, Luxembourg, Poland, Roumania, and Spain, and unofficial representatives of students of 10 other countries which had, at that time, no national unions. Congresses have been held as follows : At Warsaw, Sept. 1924, Copenhagen, 1925, Prague, 1926, Rome, 1927, Paris, 1928, Budapest, 1929, Brussels,



1930, Bucharest, 1931, Riga, 1932, Venice, 1933, Nottingham, 1934, Prague, 1935, Sofia, 1936, Paris, 1937. In 1938 the Congress will be held at Athens. The C.I.E. now embraces over 30 National Unions or national representative bodies. The number of students represented is about 850,000. It organized the Internat. Univ. Games at Rome in 1927; at Paris in 1928; at Davos and Darmstadt in 1930; at Bardonecchia and Turin in 1933; at Budapest and St. Moritz in 1935; at Zell-am-See and Paris in 1937. The next International Games, which have now achieved an importance probably second only to that of the Olympic Games themselves, will be held in Poland and Finland in 1939. The Confederation aims at promoting friendship between students and student bodies throughout the world, and the study of international questions relative to higher education and the conditions of student life. President—M. Claude Delorme (France); General Secretary—M. Smets, 83 rue de la Croix de Fer, Brussels.

The INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN was founded in 1919 "to promote understanding and friendship between the university women of the nations of the world, and thereby to further their interests and develop between their countries sympathy and mutual helpfulness." It has branches in 34 countries. The Federation assists travelling members by providing introductions, and by the establishment of club-houses or other special facilities for accommodation in the chief centres of intellectual life. It provides travelling fellowships for women graduates (v. Appendix II.), and promotes the exchange of university and secondary school teachers, librarians, museum curators, archivists, etc., between different countries. Tours of special scientific or other interest are arranged in different countries. Officers (1936-39): *President*, Dean Virginia C. Gildersleeve, Barnard Coll., Columbia Univ., N.Y.; *Vice-Presidents*, Lektor S. Adamowicz, Warsaw; Dr. Karin Kock, Univ. of Stockholm; Prof. Dr. E. Patzelt, Univ. of Vienna; *Treasurer*, Miss J. M. Bowie, London; *Secretary*, Miss Erica Holme, Crosby Hall, Cheyne Walk, London, S.W.3. International Conferences are held triennially, and International Councils yearly between Conferences. The last Conference was held in July 1936 at Cracow. *Crosby Hall* was opened by the British Federation of Univ. Women, as a London residence and club for members of the Internat. Federation at Easter 1927. The residence is intended primarily for graduate students carrying on research or other advanced work in London. Application for accommodation should be made to the Warden, Crosby Hall, London, S.W.3.

THE WORLD'S STUDENT CHRISTIAN FEDERATION is a federation of the National Student Christian movements of 27 countries, and has relations with students in 17 other countries where there are not yet regular national movements. It was founded at Vadstena, Sweden, in 1895, by five students' organizations from N. America, Gt. Britain, Germany, and Scandinavia. It endeavours to unite, and to promote mutual relations among these movements throughout the world, and to collect and distribute information about the conditions of students in all lands from the religious and other points of view. It organizes

international student conferences for the discussion of burning problems, religious, racial, educational, organizational. Publication: *The Student World* (quarterly). Headquarters: 13 rue Calvin, Geneva, Switzerland. Cable Code: Missions Code. General Secretary: Dr. W. A. Vissert' Hooft.

INTERNATIONAL STUDENT SERVICE, founded in 1919, has two different but complementary aims. It works to bring together university people of the most diverse races, religions, and politics, (1) in practical help for those among their community who need it, and (2) in objective study of the issues which tend to divide them. This work is carried out in four depts.: (i.) Relief and Reconstruction. I.S.S. has raised approximately £560,000 to relieve, train, and settle destitute students all over the world. (ii.) International Education. Five or six international University Study-Conferences are organized each year on political, social, economic or cultural issues of the first importance. (iii.) University Research. International inquiries are undertaken into such subjects as Graduate Unemployment, Academic Freedom, etc., and an International University Information Service maintained at Headquarters. (iv.) Social Service and Student Self-Help. This Dept. covers the development of student self-help schemes and work camps for students of all countries.

There is a Co-operating Committee of I.S.S. for England and Wales and Co-operating Committees and individuals in 21 other countries. Chairman: Sir Walter Moberly, D.S.O., D.Litt.; Secretary and Office, Mr. Philip Smith, 49 Gordon Square, London, W.C.1.

The International Headquarters are at 13 rue Calvin, Geneva (Switzerland).

*Publications*: I.S.S. Bulletin (monthly); Annual Reports, Conference Reports, occasional papers and books.

The STUDENT CHRISTIAN MOVEMENT of Great Britain and Ireland is the British Branch of the World's Student Christian Federation. Publications: *The Student Movement* (monthly during term). Offices: Annandale, North End Road, Golders Green, London, N.W.11.

INTER-UNIVERSITY JEWISH FEDERATION of Gt. Britain and Ireland (federating all Jewish Univ. Societies in the U.K. and Ireland). Hon. Sec.: I. L. Swift, 7 Rosebery St., Prince's Park, Liverpool.

## XI

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